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L4 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:610730 CAPLUS
DOCUMENT NUMBER: 139:161501
TITLE: Purification and characterization of elisabethatriene cyclase from Pseudopterogorgia elisabethae and use for production of elisabethatriene
INVENTOR(S): Kerr, Russell; Kohl, Amber; Lopez, Jose
PATENT ASSIGNEE(S): Florida Atlantic University, USA
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003065001	A2	20030807	WO 2003-US2299	20030127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003153052	A1	20030814	US 2003-351766	20030127

PRIORITY APPLN. INFO.: US 2002-351984P P 20020125

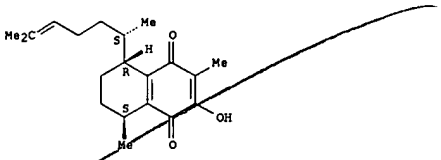
AB An enzyme having diterpene cyclase activity has been purified from Pseudopterogorgia elisabethae using a series of chromatog. steps. The purified enzyme has an apparent mol. wt. of about 47 kilodaltons and an isoelec. point of about 5.1. The purified enzyme catalyzed the cyclization of geranyl geranyl diphosphate to elisabethatriene. The invention provides a method for cyclizing geranyl geranyl diphosphate for prodn. of elisabethatriene. The elisabethatriene thus formed can be used as a substrate to produce other mols. involved in pseudopterosin synthesis, such as elisabethadiol, pseudopterosin aglycon, and pseudopterosin A.

IT **433717-71-6P**, Elisabethadione
RL: PNU (Preparation, unclassified); PREP (Preparation)
(purifn. and characterization of elisabethatriene cyclase from Pseudopterogorgia elisabethae and use for prodn. of elisabethatriene)

RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



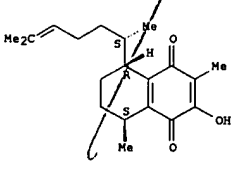
L4 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:406303 CAPLUS
DOCUMENT NUMBER: 139:146643
TITLE: Identification of anti-inflammatory diterpenes from the marine gorgonian Pseudopterogorgia elisabethae
AUTHOR(S): Ata, Athar; Kerr, Russell G.; Moya, Claudia E.; Jacobs, Robert S.
CORPORATE SOURCE: Center for Molecular Biology and Biotechnology, Department of Chemistry and Biochemistry, Florida Atlantic University, Boca Raton, FL, 33431, USA
SOURCE: Tetrahedron (2003), 59(23), 4215-4222
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Anal. of the terpene metabolites of Pseudopterogorgia elisabethae collected from the Florida Keys has resulted in the identification of a novel hydroxyquinone, elisabethadione (I), as well as new pseudopterosins and seco-pseudopterosins. Anti-inflammatory assays indicate that elisabethadione is more potent than the well characterized pseudopterosin A and E. This report also describes the co-occurrence of pseudopterosins and seco-pseudopterosins, diterpenes with amphilectane and serrulatane skeletons, resp. This together with our previously described isolation of elisabethatriene as the sole diterpene cyclase product in P. elisabethae suggests that the amphilectane and serrulatane families of diterpenes are derived from the same geranylgeranyl diphosphate cyclase product.

IT **433717-71-6P**, Elisabethadione
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(anti-inflammatory diterpenes from marine gorgonian Pseudopterogorgia elisabethae)

RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

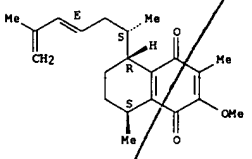
L4 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:280878 CAPLUS
DOCUMENT NUMBER: 139:85507
TITLE: Unified strategy for the synthesis of (-)-elisapterosin B and (-)-colombiasin A
AUTHOR(S): Kim, Angie I.; Rychnovsky, Scott D.
CORPORATE SOURCE: Department of Chemistry, University of California, Irvine, CA, 92697-2025, USA
SOURCE: Angewandte Chemie, International Edition (2003), 42(11), 1267-1270
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English

AB (-)-Elisapterosin B was synthesized using an intramol. [5 + 2] cycloaddn. as a key step. (-)-Colombiasin A was also synthesized via the same route, but with an intramol. thermal [4 + 2] Diels-Alder reaction as the final step.

IT **552824-51-8P 552824-55-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of (-)-elisapterosin B and (-)-colombiasin A from a chiral aldehyde via either an intramol. [5+2] cycloaddn. or Diels-Alder reaction)

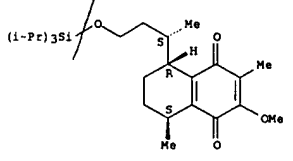
RN 552824-51-8 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 552824-55-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-5-[(1S)-1-methyl-3-[[tris(1-methylethyl)silyl]oxy]propyl]-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

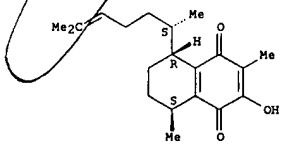
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:522625 CAPLUS
DOCUMENT NUMBER: 137:98953
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

PRIORITY APPLN. INFO.: US 2000-253160P P 20001128
OTHER SOURCE(S): MARPAT 137:98953
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I; R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.
IT 433717-71-6, Elisabethadione
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)
RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

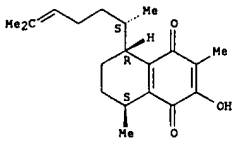
L4 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:428919 CAPLUS
DOCUMENT NUMBER: 137:15779
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002041521	A5	20020611	AU 2002-41521	20011127
EP 1339729	A2	20030903	EP 2001-988191	20011127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2000-253160P P 20001128
WO 2001-US44334 W 20011127
OTHER SOURCE(S): MARPAT 137:15779
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.
IT 433717-71-6P, Elisabethadione
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)
RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



L4 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

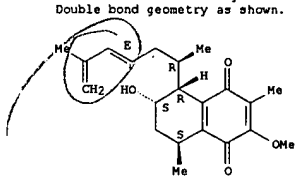
ACCESSION NUMBER: 2002:11433 CAPLUS
DOCUMENT NUMBER: 136:279574
TITLE: Total synthesis of colombiasin A and determination of its absolute configuration
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Chemistry--A European Journal (2001), 7(24), 5359-5371
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The total synthesis of the recently reported marine natural product colombiasin A (I) and detn. of its abs. configuration are reported. Two Diels - Alder cycloaddns. and a palladium-catalyzed rearrangement are employed as key reactions to construct the tetracyclic framework of the target mol. The enantioselective synthesis of colombiasin A utilizes Mikami's [(S)-BINOL-TiCl2] catalyst to asym. introduce the first chiral center during the initial Diels - Alder reaction and, in conjunction with X-ray crystallog. anal. of a bromine contg. deriv., led to the assignment of the abs. configuration of the natural product.

IT **362650-95-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A and detn. of its abs. configuration)

RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

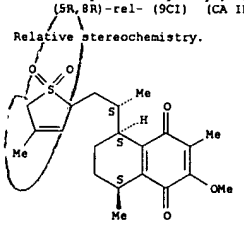
ACCESSION NUMBER: 2001:831849 CAPLUS
DOCUMENT NUMBER: 136:151319
TITLE: Towards colombiasin A
AUTHOR(S): Harrowven, David C.; Tyte, Melloney J.
CORPORATE SOURCE: Department of Chemistry, The University of Southampton, Southampton, SO17 1BJ, UK
SOURCE: Tetrahedron Letters (2001), 42(49), 8709-8711
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A synthetic route to an diastereomerically unnatural analog I of colombiasin A (II) is described. Key features are an arene alkylation with a .gamma.-methylene-.gamma.-butyrolactone and an intramol. Diels-Alder cycloaddn.

IT **394739-50-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthetic studies directed towards colombiasin A)

RN 394739-50-5 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, (5R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN

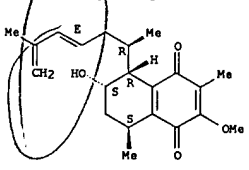
ACCESSION NUMBER: 2001:516801 CAPLUS
DOCUMENT NUMBER: 135:273093
TITLE: Total synthesis of Colombiasin A
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Angewandte Chemie, International Edition (2001), 40(13), 2482-2486
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:273093

AB The authors report the total synthesis of racemic colombiasin A (I) by a strategy which also delivered its C7 epimer as well as several other analogs.

IT **362650-95-1P 362651-05-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A)

RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

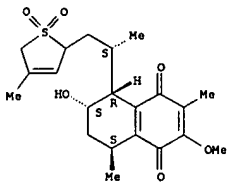
Relative stereochemistry.
Double bond geometry as shown.



RN 362651-05-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5S,6R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

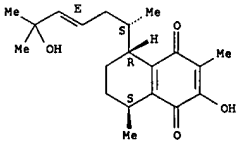
L4 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:895538 CAPLUS
DOCUMENT NUMBER: 134:160401
TITLE: Structurally diverse terpenoids from the sea whip Pseudopterogorgia elisabethae (Bayer)
AUTHOR(S): Rodriguez, A. D.; Shi, Y.-P.
CORPORATE SOURCE: Department of Chemistry, University of Puerto Rico, San Juan, 00931-3346, P. R.
SOURCE: Tetrahedron (2000), 56(46), 9015-9023
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The extn. of a specimen of Pseudopterogorgia elisabethae from Colombia afforded three new diterpenes (I-III), a norditerpene (IV), and a tetrisnorditerpene (V). Metabolites IV and V contain unusual carbon skeletons that are previously undescribed and therefore constitute new classes of C19 and C16 rearranged terpenes, resp. Full details of the isolation and structure elucidation of I-V, which were established by spectroscopic methods including comprehensive 2D NMR measurements, are provided herein.
IT **325691-48-3P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(terpenoids from sea whip Pseudopterogorgia elisabethae)
RN 325691-48-3 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-[(1R,3E)-5-hydroxy-1,5-dimethyl-3-hexenyl]-3,8-dimethyl-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

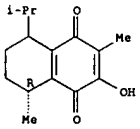
Rotation (+)., Absolute stereochemistry unknown.
Double bond geometry as shown.
Currently available stereo shown.



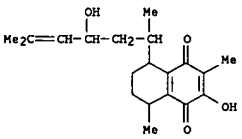
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:108327 CAPLUS
DOCUMENT NUMBER: 128:192798
TITLE: Formation of mansonones from naturally occurring para-benzoquinones
AUTHOR(S): Garcia, Esther; Mendoza, Virgilio; Agustin Guzman, J.
CORPORATE SOURCE: Instituto Investigaciones Quimico-Biologicas, Universidad Michoacana San Nicolas de Hidalgo, Morelia, 58030, Mex.
SOURCE: Natural Product Letters (1997), 11(1), 67-72
CODEN: NPLEEF; ISSN: 1057-5634
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cyclization of perezone and hydroxyperezone with HI, followed by Jones oxidn., converted them into isomansonone A and mansonone A, B, and C.
IT **203174-32-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of mansonones from perezone)
RN 203174-32-7 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



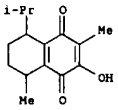
L4 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1989:21335 CAPLUS
DOCUMENT NUMBER: 110:21335
TITLE: New marine diterpenoids, including a unique hydroperoxide, from a Caribbean gorgonian coral of the genus Pseudopterogorgia
AUTHOR(S): Harvis, Carl A.; Burch, Mark T.; Fenical, William
CORPORATE SOURCE: Inst. Mar. Resourc., Scripps Inst. Oceanogr., La Jolla, CA, 92093-0228, USA
SOURCE: Tetrahedron Letters (1988), 29(35), 4361-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:21335
AB 4 New diterpenoids (I-IV) related to the aglycon components of the recently described pseudopterosins and seco-pseudopterosins have been isolated from an undescribed Pseudopterogorgia species from the Caribbean Sea. The new compds., described on the basis of their NMR properties and chem. interconversions, appear to be related, illustrating some interesting rearrangements of a tertiary hydroperoxide in this series.
IT **118169-36-1**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of gorgonian coral)
RN 118169-36-1 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-(3-hydroxy-1,5-dimethyl-4-hexenyl)-3,8-dimethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1967:105061 CAPLUS
DOCUMENT NUMBER: 66:105061
TITLE: Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Marini-Bettolo, Giovanni B.; Casinovi, Carlo G.; Galeffi, Corrado; Delle Monache, Franco; Del Guercio, G.
CORPORATE SOURCE: Univ. Cattolica, Rome, Italy
SOURCE: Annali dell'Istituto Superiore di Sanita (1966), 2(2-3), 327-41
CODEN: AISSAW; ISSN: 0021-2571
DOCUMENT TYPE: Journal
LANGUAGE: Italian

AB CA 64, 12728d. The wood of M. altissima, which is widely used for furniture making, was studied for the irritating and cardiokinetic substances it contains. By means of column chromatog., the crude CHCl3 ext. of M. altissima was fractionated into 6 new quinones: red mansonone A (I), m. 117-18.degree., [.alpha.]20D 680.degree. (c 0.2, CHCl3); gold-yellow mansonone B (II), 68-9.degree.; orange mansonone C (III), m. 134-8.degree.; orange mansonone D (IV), m. 173-5.degree.; orange-yellow mansonone E (V), m. 148-9.degree.; violet-mansonone F (VI), m. 214-15.degree.. Their structures were partially elucidated by chem. and spectroscopic analysis. A C15 skeleton which is a common feature for the compds. suggests a terpene origin. Two have the structure of oxaphenalene found the 1st time in biflorin. I was easily reduced in H2O with Na hydrosulfite. I was reduced with Zn in Ac2O and pyridine to yield the diacetate, m. 158-60.degree.. Ac2O and NaOAc yielded the acetate, b0.02 120.degree.. II, III, IV, and V were reduced by Na hydrosulfite and reoxidized by air. III with pyridine, Ac2O, and Zn yielded the diacetate, m. 156-8.degree.. Boiling with an acetic acid soln. of o-phenylenediamine yielded the quinoxaline, m. 103-4.degree.. IV did not react with Ac2O and NaOAc. With Zn and Ac2O and pyridine it gave a diacetyl deriv. With o-phenylenediamine and acetate V gave a deriv., m. 148-50.degree.. With Zn, Ac2O, and pyridine V gave a diacetate, m. 110.degree.. VI is very sensitive to light and changes with time, especially in soln.

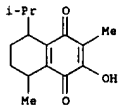
IT **14375-53-2**
RL: PRP (Properties)
(structure of)
RN 14375-53-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1966:67994 CAPLUS
DOCUMENT NUMBER: 64:67994
ORIGINAL REFERENCE NO.: 64:12728d-h,12729a
TITLE: New class of quinones. Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Bettolo, G. B. Marini; Casinovi, C. G.; Galeffi, C.
CORPORATE SOURCE: Ist. Super. Sanita, Rome
SOURCE: Tetrahedron Letters (1965), (52), 4857-64
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To sep. the irritative from the cardiac principles, the heartwood of M. altissima was submitted to systematic solvent extn. in which the 2 main pharmacol.-active principles appeared in the CHCl3 and EtOH exts., resp. Column chromatography on SiO2 and Al2O3 from an adequate series of solvents (C6H6, CHCl3, AcOEt) sepd. the CHCl3 irritative fraction into 6 C15-quinones designated as mansononeS A, B, C, D, E, and F, m. 117-18.degree. (C6H12), 68-9.degree. (C6H14), 134-8.degree. (C6H14), 173-5.degree. (C6H12C6H6), 148-9.degree. (C6H12), and 214-15.degree. (C6H6), resp. Mansonone F, C15H12O3, characterized by its deep violet color, was reactive to .omicron.-(H2N)2C6H4, inert to acetylation and lacked OH absorption in the ir spectrum (N.M.R. spectrum given). The presence of a tricyclic 1,2-naphthoquinone (I) with the fragment -CMe:CHO-, in the 3rd ring, similar in structure to dihydrobiflorin was suggested. Mansonone E (II) on reductive acetylation gave a diacetate, C19H20O5, m. 110.degree.. II reacted with .omicron.-(H2N)2C6H4 to give the expected quinoxaline, m. 148-50.degree.. The ir spectra of II was similar to that of tetrahydrobiflorin. Mansonone C (III), gave a quinoxaline deriv., m. 103-4.degree., and was converted by reductive acetylation to a diacetate, m. 156-8.degree.. On the assumption of a common biogenesis with I and II it was deduced that III was identical with the cadalene 7,8-quinone of Lindahl (CA 49, 8223g). Mansonone B (IV) (monoacetate b0.02 120.degree.) .lambda. 263,339, 435 m.mu. (log .epsilon. 4.1, 2.53, 1.8, alc.) may have one of the 2 alternative formulas given. Mansonone A (V) showed absence of aromatic protons and benzylic methylenes and the proposed formulas is in accordance with those of I-IV and with the isoprene rule. V is probably identical with the compd. described by Sandermann and Dietrichs (CA 53, 14351e). Mansonone D (VI) gave no acetate but reacted with .omicron.-(H2N)2C6H4 to give a quinoxaline. A tentative structure was assigned. Spectral data were given for the compds.

IT **14375-53-2**, Mansonone B
(structure of)
RN 14375-53-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)

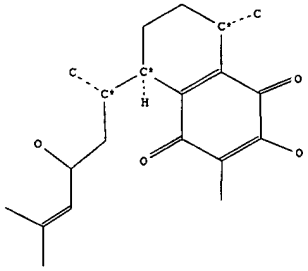


L4 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

=> d all 1-2

L5 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): 5095107
Beilstein Pref. RN (BPR): 118169-36-1
CAS Reg. No. (RN): **118169-36-1**
Chemical Name (CN): 2-hydroxy-5-(3-hydroxy-1,5-dimethyl-hex-4-enyl)-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Autonom Name (AUN): 2-hydroxy-5-(3-hydroxy-1,5-dimethyl-hex-4-enyl)-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Molec. Formula (MF): C20 H28 O4
Molecular Weight (MW): 332.44
Lawson Number (LN): 9791
File Segment (FS): relative configuration, Stereo compound
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 4527263
Tautomer ID (TAUTID): 4874682
Beilstein Citation (BSO): 6-08
Entry Date (DED): 1992/08/28
Update Date (DUPD): 1993/03/20



Fragment Notes:
Alternatively represents mirror image
Stereo Descriptor: rel

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1

L5 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

Code	Name	Occurrence
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
INP	Isolation from Natural Product	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	2
UVS	UV and Visible Spectrum	2

Isolation from Natural Product:
INP
(INP): Pseudopterogorgia
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): CDCl3
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 13C
Solvents (.SOL): benzene-d6
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Infrared Spectrum:

Description (.KW)	Solvent (.SOL)	Ref.	Note
Bands	CHCl3	1	1

Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Notes(s):
1. 3000 - 1640 cm**(-1)

L5 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

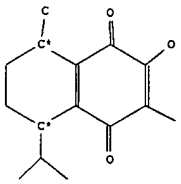
UV and Visible Spectrum:

Description (.KW)	Solvent (.SOL)	Absorption Maxima (.AM) (nm)	Ext./Abs. Coeff. (.EAC) (I/MOL*CM)	Ref.
Absorption maxima	methanol	326, 281, 223	4600, 7500, 15700	1
Absorption maxima	methanol	321, 279, 220	3100, 8900, 13200	1

Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

L5 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): 2053092
Beilstein Pref. RN (BPR): 14375-53-2
CAS Reg. No. (RN): **14375-53-2**
Chemical Name (CN): Mansonon B
Autonom Name (AUN): 2-hydroxy-5-isopropyl-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Molec. Formula (MF): C15 H20 O3
Molecular Weight (MW): 248.32
Lawson Number (LN): 9296
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 1884852
Tautomer ID (TAUTID): 2003770
Beilstein Citation (BSO): 5-08
Entry Date (DED): 1989/06/29
Update Date (DUPD): 1992/06/02



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
INP	Isolation from Natural Product	2
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	1
RSTR	Related Structure	1
UVS	UV and Visible Spectrum	1

Related Structure:

L5 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN
(Continued)
RSTR
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

Isolation from Natural Product:
INP
(INP): M. altissima
Reference(s):
1. Marini-Bettolo et al., Ann.Ist.Super.Sanita, CODEN: AISSAW, 2(2-3), <1966>, 327,328-341, Chem.Abstr., 66(105061), <1967>
INP
(INP): a. Mansonia Altissima Cher.
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

Melting Point:

Value (MP) (Cel)	Ref.
68 - 69	1, 2

Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857
2. Marini-Bettolo et al., Ann.Ist.Super.Sanita, CODEN: AISSAW, 2(2-3), <1966>, 327,328-341, Chem.Abstr., 66(105061), <1967>

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

UV and Visible Spectrum:

Description (.KW)	Ref.
Absorption maxima	1

Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

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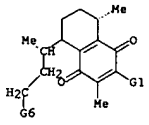
L7 ANSWER 1 OF 3 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 137:98953 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

PRIORITY APPLN. INFO.: US 2000-235160P 20000922

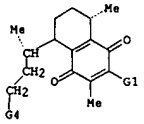
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

MSTR 3



G1 = OH
MPL: claim 21
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

L7 ANSWER 2 OF 3 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G1 = OH
MPL: claim 21
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

L7 ANSWER 2 OF 3 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 137:15779 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
AU 2002041521	A5	20020611	AU 2002-41521	20011127
EP 1339729	A2	20030903	EP 2001-988191	20011127
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			

PRIORITY APPLN. INFO.: US 2000-253160P 20001128
WO 2001-US44334 20011127

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

MSTR 3

L7 ANSWER 3 OF 3 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 110:4187 MARPAT
TITLE: Composition and method for rapid differentiation of viable fungi from bacteria using polyene antibiotics
INVENTOR(S): Cichanowicz, Peggy Woodruff; Belly, Robert Troconis
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 261931	A2	19880330	EP 1987-308380	19870922
EP 261931	A3	19891011		
R: CH, DE, FR, GB, LI				
CA 1290226	A1	19911008	CA 1986-523203	19861118

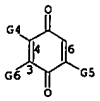
PRIORITY APPLN. INFO.: US 1986-910923 19860924

AB Viable fungi are rapidly differentiated from viable bacteria by incubation with a compn. contg. a polyene antibiotic which affects membrane function in fungi and a compd. [e.g. a RIND compd. (reducible compd. which undergoes intramol. nucleophilic displacement) such as quinone I, where R1 = (R5)mN(R6)QX; R2, R4 = H, (substituted) alkyl or aryl, electron-withdrawing group; R3 = R1, R2; or R3R4 complete a (substituted) strained fused carbocyclic ring; R5 = (substituted) C1-2 alkylene; R6 = (substituted) alkyl, cycloalkyl, aryl, or heterocycle; Q = C(O), C(S); X = shiftable detectable species which provides a detectable species when released; m = 0, 1] which is normally reducible by both fungi and bacteria. The antibiotic selectively inhibits the redn. of the reducible compd. by the fungi but does not affect the reducing capacity of the bacteria. A soln. contg. RIND compd. II, glucose, trimethyl-1,4-benzoquinone (electron transfer agent), buffer, and filipin (polyene antibiotic) at various dilns. was incubated with suspensions of various bacteria and fungi at 37.degree. for 30 min, and the difference in relative fluorescence before and after incubation was measured with excitation at 540 nm and emission at 620 nm. The percent inhibition of redn. of II at 0.52 mg filipin/mL was: Escherichia coli, 0; Staphylococcus aureus, 8.6; Candida albicans, 71.0; Aspergillus flavus, 42.5.

MSTR 1B

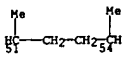
G2—G1

G1 = 6



G5 = OMe
G7 = alkylene<(1-2)> (SO (1-) G11)
G4 +G6 = 51-4 54-3

L7 ANSWER 3 OF 3 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



MPL: claim 4

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     FILE 'REGISTRY' ENTERED AT 15:12:24 ON 30 OCT 2003
L1              STRUCTURE UPLOADED
L2            1 S L1
L3           11 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 15:13:52 ON 30 OCT 2003
L4           13 S L3

     FILE 'BEILSTEIN' ENTERED AT 15:18:24 ON 30 OCT 2003
L5            2 S L3

     FILE 'MARPAT' ENTERED AT 15:22:21 ON 30 OCT 2003
L6            0 S L3
L7            3 S L3 FULL
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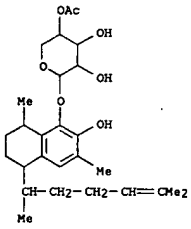
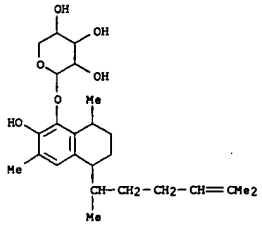
L19 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:48793 CAPLUS
DOCUMENT NUMBER: 112:48793
TITLE: Pseudopterosins and their synthetic derivatives as anticancer, antiinflammatory and analgesic drugs
INVENTOR(S): Jacobs, Robert S.; Fenical, William H.
PATENT ASSIGNEE(S): University of California, USA
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8901334	A1	19890223	WO 1988-US2695	19880808
W: JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4849410	A	19890718	US 1987-85628	19870814
CA 1317591	A1	19930511	CA 1988-574076	19880808
PRIORITY APPLN. INFO.:			US 1987-85628	19870814
			US 1985-723214	19850415

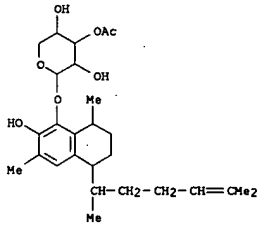
OTHER SOURCE(S): MARPAT 112:48793
AB The title compds. I (R1-R4 = H, C1-6 acyl; R5 = H, Me, CH2OH; R6 = C1-10 hydrocarbyl) are antiinflammatory, anticancer and analgesic drugs. I (R1-R5 = H, R6 = 2-methyl-1-propenyl)(II) administered i.p. at 1-5 mg/kg, almost doubled the survival time of mice with P388 leukemia. II was extd. from Pseudopterogorgia with 10% MeOH in CHCl3, followed by solvent evapn., reextn. with CHCl3 and purifn. by silica gel chromatog.
IT **106665-01-4 106665-02-5 106665-03-6**
RL: BIOL (Biological study)
(anticancer and antiinflammatory and analgesic drug)
RN 106665-01-4 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)



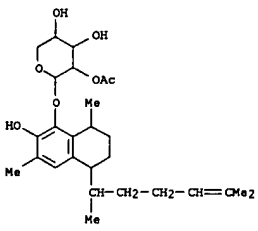
L19 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)
RN 106665-02-5 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)



RN 106665-03-6 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

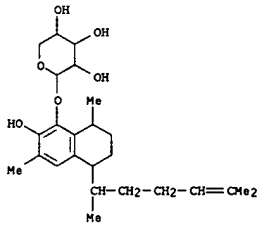


L19 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:633406 CAPLUS
DOCUMENT NUMBER: 107:233406
TITLE: The seco-pseudopterosins, new anti-inflammatory diterpene-glycosides from a Caribbean gorgonian octocoral of the genus Pseudopterogorgia
AUTHOR(S): Look, Sally A.; Fenical, William
CORPORATE SOURCE: Inst. Mar. Resour., Univ. California, San Diego, La Jolla, CA, 92093, USA
SOURCE: Tetrahedron (1987), 43(15), 3363-70
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new class of diterpene-pentosides, the seco-pseudopterosins A-D (I, II, III, and IV) were isolated from a Caribbean sea whip of the genus Pseudopterogorgia. The new compds. are arabinose glycosides possessing aglycons of the serrulatane class, the compds. in the series are monoacetate positional isomers, and they are related to the recently described pseudopterosins by bond cleavage at the C5 - C13 positions. The seco-pseudopterosins possess potent anti-inflammatory and analgesic activities equiv. to com. anti-inflammatory drugs. The structures of these new compds. are suggested on the basis of comprehensive spectral analyses and chem. transformations.
IT **111397-51-4 111466-65-0 111466-66-1 111466-67-2**
RL: BIOL (Biological study)
(of gorgonian octocoral, isolation and mol. structure and anti-inflammatory activity of)
RN 111397-51-4 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 2-acetate (9CI) (CA INDEX NAME)

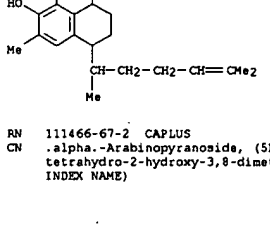


RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)

L19 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)

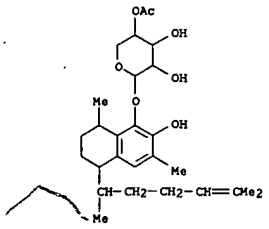


RN 111466-66-1 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate (9CI) (CA INDEX NAME)



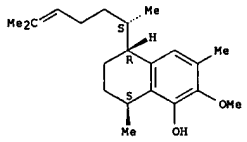
RN 111466-67-2 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate (9CI) (CA INDEX NAME)

L19 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 111397-54-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and NMR of)
RN 111397-54-7 CAPLUS
CN 1-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

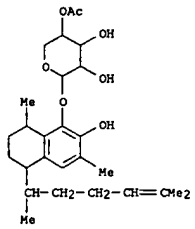


L19 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:84986 CAPLUS
DOCUMENT NUMBER: 106:84986
TITLE: Pseudopterosin and its synthetic derivatives
INVENTOR(S): Jacobs, Robert S.; Fenical, William H.
PATENT ASSIGNEE(S): University of California, Berkeley, USA
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

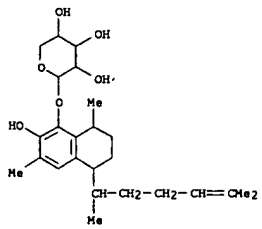
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 198689	A2	19861022	EP 1986-302711	19860411
EP 198689	A3	19870610		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4745104	A	19880517	US 1985-723214	19850415
CA 1288771	A1	19910910	CA 1986-505110	19860326
ZA 8602488	A	19861126	ZA 1986-2488	19860403
DK 8601626	A	19861016	DK 1986-1626	19860410
AU 8656065	A1	19861023	AU 1986-56065	19860414
ES 553952	A1	19871101	ES 1986-553952	19860414
JP 62036395	A2	19870217	JP 1986-85238	19860415
JP 2748001	B2	19980506		

PRIORITY APPLN. INFO.: US 1985-723214 19850415
AB The title compds. I [R1-R4 = H, C1-6 acyl; R5 = H, HOCH2; R6 = (un)substituted hydrocarbonyl] were isolated from Caribbean gorgonians or prepd. and tested for analgesic and antiinflammatory activity. Thus, pseudopterosin A (R1-R5 = H, R6 = Me2C:CH) was acetylated with Ac2O in pyridine to give 79% I (R1-R4 = Ac, R5 = H, R6 = Me2C:CH) (II). In the phenylquinone writhing test in mice 25 mg II/kg s.c. reduced writhing 34%.
IT 106665-01-4 106665-02-5 106665-03-6
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(analgesic and antiinflammatory activity of)
RN 106665-01-4 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L19 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)

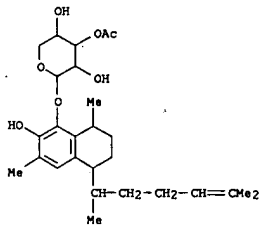


RN 106665-02-5 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)



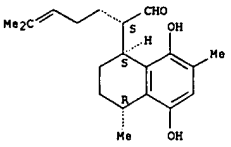
RN 106665-03-6 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L19 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



L19 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1985:611133 CAPLUS
DOCUMENT NUMBER: 103:211133
TITLE: Eremophilane and serrulatane terpenoids from Eremophila rotundifolia
AUTHOR(S): Abell, Andrew D.; Massy-Westropp, Ralph A.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, 5001, Australia
SOURCE: Australian Journal of Chemistry (1985), 38(8), 1263-9
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The new terpenoids 9-oxoeremophila-10,11(13)-dien-12-al (I) and 5,8-dihydroxyserrulat-14-en-18-al (II) were isolated from E. rotundifolia. Their abs. stereochem. was established by chem. correlation with known compds.
IT **99305-32-5**
RL: BIOL (Biological study)
(from Eremophila rotundifolia, structure of)
RN 99305-32-5 CAPLUS
CN 1-Naphthaleneacetaldehyde, 1,2,3,4-tetrahydro-5,8-dihydroxy-4,7-dimethyl-.alpha.-(4-methyl-3-pentenyl)-, [1S-[1.alpha.(R*),4.beta.]]- (9CI) (CA INDEX NAME)

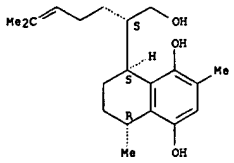
Absolute stereochemistry.



IT **99305-21-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of)
RN 99305-21-2 CAPLUS
CN 1,4-Naphthalenediol, 5,6,7,8-tetrahydro-8-[1-(hydroxymethyl)-5-methyl-4-hexenyl]-2,5-dimethyl-, [5R-[5.alpha.,8.beta.(S*)]]- (9CI) (CA INDEX NAME)

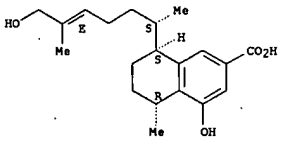
Absolute stereochemistry.

L19 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



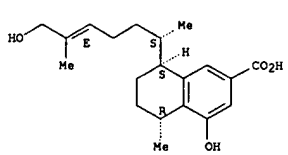
L19 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1980:146967 CAPLUS
DOCUMENT NUMBER: 92:146967
TITLE: The chemistry of Eremophila spp. XI. The absolute configuration of dihydroxyserrulatic acid
AUTHOR(S): Croft, Kevin D.; Ghisalberti, Emilio L.; Jefferies, Phillip R.; Stuart, Alan D.
CORPORATE SOURCE: Dep. Org. Chem., Univ. West. Australia, Nedlands, 6009, Australia
SOURCE: Australian Journal of Chemistry (1979), 32(9), 2079-83
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The (1'S)-configuration of dihydroxyserrulatic acid (I), isolated from E. serrulata, was detd. by transformation into the (1'S)-dimethylhexylnaphthalene II and by synthesis of its enantiomer III from (R)-citronellal.
IT **65003-68-1**
RL: PRP (Properties)
(abs. configuration of)
RN 65003-68-1 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5R-[5.alpha.,8.beta.(1S*,4E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L19 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1978:7095 CAPLUS
DOCUMENT NUMBER: 88:7095
TITLE: The chemistry of Eremophila spp-VI. Stereochemistry and crystal structure of dihydroxyserrulatic acid
AUTHOR(S): Croft, Kevin D.; Ghisalberti, Emilio L.; Jefferies, Philip R.; Raston, Colin L.; White, Allan H.; Hall, Sydney R.
CORPORATE SOURCE: Crystallogr. Cent., Univ. West. Australia, Nedlands, Australia
SOURCE: Tetrahedron (1977), 33(12), 1475-80
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The structure of the title compd. (I) (from E. serrulata), a diterpenoid analog of codinene, was detd. I was characterized by chem. and spectral data and its relative stereochem. established by x-ray diffraction at 295 K. Std. degrdn. of I gave the naphthalene II.
IT **65003-68-1P**
RL: PREP (Preparation)
(from Eremophila serrulata, structure detn. of)
RN 65003-68-1 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5R-[5.alpha.,8.beta.(1S*,4E)]]- (9CI) (CA INDEX NAME)

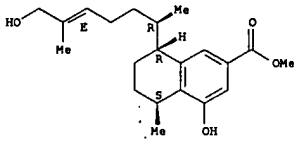
Absolute stereochemistry.
Double bond geometry as shown.



IT **65003-60-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)
RN 65003-60-3 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, methyl ester, [5.alpha.,8.beta.(1S*,4E)]-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.
Double bond geometry as shown.

L19 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



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L6           2 S L1 FULL
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L12          1 S L9
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L14         79 S L13 AND 2/NR

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L19         22 S L18
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L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:522625 CAPLUS
DOCUMENT NUMBER: 137:98953
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

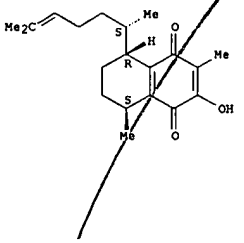
PRIORITY APPLN. INFO.: US 2000-235160P P 20000922
OTHER SOURCE(S): MARPAT 137:98953

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

IT **433717-71-6**, Elisabethadione
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)

RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:428919 CAPLUS
DOCUMENT NUMBER: 137:15779
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002041521	A5	20020611	AU 2002-41521	20011127

PRIORITY APPLN. INFO.: US 2000-253160P P 20001128
WO 2001-US44334 W 20011127

OTHER SOURCE(S): MARPAT 137:15779

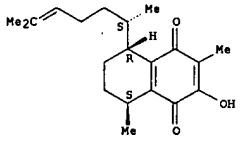
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

IT **433717-71-6P**, Elisabethadione
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)

RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)



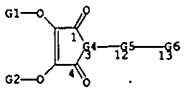
=> d ibib ab fqhit 1-2

L5 ANSWER 1 OF 2 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 129:175440 MARPAT
TITLE: Preparation of bicyclic quinones as mitochondrial function activators
INVENTOR(S): Kato, Kaneyoshi; Ohra, Taiichi; Miyamoto, Masaomi
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 224 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9833758	A1	19980806	WO 1998-JP422	19980202
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9856801	A1	19980825	AU 1998-56801	19980202
JP 10273469	A2	19981013	JP 1998-20100	19980202
EP 968164	A1	20000105	EP 1998-901088	19980202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6326369	B1	20011204	US 1999-341198	19990706
PRIORITY APPLN. INFO.:			JP 1997-20763	19970203
			WO 1998-JP422	19980202

AB Title compds. [I; R1,R2 = alkyl; R1R2 = atoms to form a ring; R3R4 = atoms to form a (un)substituted ring having ZR as a substituent; R = (un)substituted OH, -NH2, -aryl, acyl; Z = 1-15 atom-contg. chain] were prepd. Thus, I (R1-R3 = Me, R4 = H) was converted in 4 steps to 1-bromo-6-bromomethyl-2,3,4,5-tetramethoxybenzene which was condensed with EtO2C(CH2)7CH(CO2Et)2 (prepn. given) to give, in 3 addnl. steps, I [R1 = R2 = Me, R3R4 = CH2CR5R6CH2, R5 = CO2Et, R6 = (CH2)7CO2Et]. Data for biol. activity of I were given.

MSTR 1A



G4 = 36-1 35-4 37-12

L5 ANSWER 1 OF 2 MARPAT COPYRIGHT 2003 ACS (Continued)

G5 = alkylene<(1-8)>
DER: or salts
MPL: claim 1

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

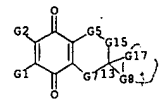
L5 ANSWER 2 OF 2 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 126:152798 MARPAT
TITLE: Tocotrienols and tocotrienol-like compounds and methods for their use
INVENTOR(S): Lane, Ronald H.; Qureshi, Asaf A.; Salser, Winston A.
PATENT ASSIGNEE(S): Lipogenics, Inc., USA
SOURCE: U.S., 41 pp., Cont.-in-part of U.S. Ser. No. 796,486, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5591772	A	19970107	US 1994-244215	19940815
WO 9309777	A1	19930527	WO 1992-US10277	19921120
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
AU 9331502	A1	19930615	AU 1993-31502	19921120
AU 670557	B2	19960725		
JP 07504887	T2	19950601	JP 1992-509587	19921120
JP 2000169369	A2	20000620	JP 1999-332117	19921120
NO 9401929	A	19940713	NO 1994-1929	19940524
US 5908940	A	19990601	US 1996-583232	19960105
US 5821264	A	19981013	US 1996-719284	19960924
US 5919818	A	19990706	US 1997-991912	19971216
US 6143770	A	20001107	US 1998-182531	19981028
US 6204290	B1	20010320	US 1998-182384	19981028
US 6239171	B1	20010529	US 1998-182530	19981028
PRIORITY APPLN. INFO.:			US 1991-796486	19911122
			WO 1992-US10277	19921120
			US 1990-527612	19900523
			WO 1991-US3626	19910523
			JP 1992-509587	19921120
			US 1993-952615	19930119
			US 1994-244215	19940815
			US 1996-719284	19960924
			US 1997-991912	19971216

AB The present invention relates to novel tocotrienols and tocotrienol-like compds. displaying biol. activity. The tocotrienols and tocotrienol-like compds. of this invention may be conveniently obtained from biol. sources or by chem. synthesis and may be used in pharmaceutical compns., foodstuffs and dietary supplements. This invention also relates to the use of tocotrienols, tocotrienol-like compds., and mixts. thereof, as hypocholesterolemic, antithrombotic, antioxidizing, antiatherogenic, antiinflammatory, and immunoregulatory agents or as agents useful to decrease lipoprotein (a) concn. in the blood or to increase feed conversion efficiency.

MSTR 6

L5 ANSWER 2 OF 2 MARPAT COPYRIGHT 2003 ACS (Continued)



G1 = OH
G2 = OH
G5 = 26

HC—G6
26

G6 = alkyl<(1-6)>
G7 = 60

HC—G16
60

G15 = (0-4) CH2
DER: and salts, oxidation products and hydrolysis products
MPL: disclosure

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=> d his

     (FILE 'HOME' ENTERED AT 09:59:23 ON 28 MAY 2003)

     FILE 'REGISTRY' ENTERED AT 09:59:28 ON 28 MAY 2003
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           0 S L1 FULL

     FILE 'BEILSTEIN' ENTERED AT 10:00:06 ON 28 MAY 2003
L4           0 S L1 FULL

     FILE 'MARPAT' ENTERED AT 10:00:23 ON 28 MAY 2003
L5           2 S L2 FULL

=> d his

     (FILE 'HOME' ENTERED AT 09:59:23 ON 28 MAY 2003)

     FILE 'REGISTRY' ENTERED AT 09:59:28 ON 28 MAY 2003
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           0 S L1 FULL

     FILE 'BEILSTEIN' ENTERED AT 10:00:06 ON 28 MAY 2003
L4           0 S L1 FULL

     FILE 'MARPAT' ENTERED AT 10:00:23 ON 28 MAY 2003
L5           2 S L2 FULL

     FILE 'CAPLUS' ENTERED AT 10:04:56 ON 28 MAY 2003
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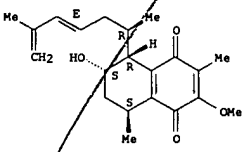
L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:11433 CAPLUS
DOCUMENT NUMBER: 136:279574
TITLE: Total synthesis of colombiasin A and determination of its absolute configuration
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Chemistry--A European Journal (2001), 7(24), 5359-5371. CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The total synthesis of the recently reported marine natural product colombiasin A (I) and detn. of its abs. configuration are reported. Two Diels - Alder cycloaddns. and a palladium-catalyzed rearrangement are employed as key reactions to construct the tetracyclic framework of the target mol. The enantioselective synthesis of colombiasin A utilizes Mikami's [(S)-BINOL-TiCl2] catalyst to asym. introduce the first chiral center during the initial Diels - Alder reaction and, in conjunction with X-ray crystallog. anal. of a bromine contg. deriv., led to the assignment of the abs. configuration of the natural product.
IT **362650-95-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A and detn. of its abs. configuration)
RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

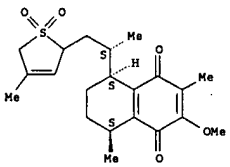
Relative stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:831849 CAPLUS
DOCUMENT NUMBER: 136:151319
TITLE: Towards colombiasin A
AUTHOR(S): Harrowven, David C.; Tyte, Melloney J.
CORPORATE SOURCE: Department of Chemistry, The University of Southampton, Southampton, SO17 1BJ, UK
SOURCE: Tetrahedron Letters (2001), 42(49), 8709-8711 CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A synthetic route to an diastereomerically unnatural analog I of colombiasin A (II) is described. Key features are an arene alkylation with a .gamma.-methylene-.gamma.-butyrolactone and an intramol. Diels-Alder cycloaddn.
IT **394739-50-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthetic studies directed towards colombiasin A)
RN 394739-50-5 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, (5R,8R)-rel- (9CI) (CA INDEX NAME)

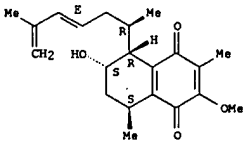
Relative stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:516801 CAPLUS
DOCUMENT NUMBER: 135:273093
TITLE: Total synthesis of Colombiasin A
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Angewandte Chemie, International Edition (2001), 40(13), 2482-2486 CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:273093
AB The authors report the total synthesis of racemic colombiasin A (I) by a strategy which also delivered its C7 epimer as well as several other analogs.
IT **362650-95-1P 362651-05-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A)
RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

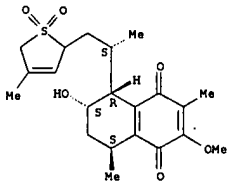
Relative stereochemistry.
Double bond geometry as shown.



RN 362651-05-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5S,6R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

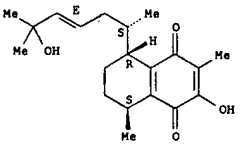
L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:895538 CAPLUS
DOCUMENT NUMBER: 134:160401
TITLE: Structurally diverse terpenoids from the sea whip Pseudopterogorgia elisabethae (Bayer)
AUTHOR(S): Rodriguez, A. D.; Shi, Y.-P.
CORPORATE SOURCE: Department of Chemistry, University of Puerto Rico, San Juan, 00931-3346, P. R.
SOURCE: Tetrahedron (2000), 56(46), 9015-9023
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The extn. of a specimen of Pseudopterogorgia elisabethae from Colombia afforded three new diterpenes (I-III), a norditerpene (IV), and a tetrisnorditerpene (V). Metabolites IV and V contain unusual carbon skeletons that are previously undescribed and therefore constitute new classes of C19 and C16 rearranged terpenes, resp. Full details of the isolation and structure elucidation of I-V, which were established by spectroscopic methods including comprehensive 2D NMR measurements, are provided herein.
IT **325691-48-3P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(terpenoids from sea whip Pseudopterogorgia elisabethae)
RN 325691-48-3 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-[(1R,3E)-5-hydroxy-1,5-dimethyl-3-hexenyl]-3,8-dimethyl-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

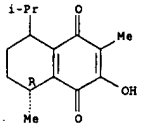
Rotation (+). Absolute stereochemistry unknown.
Double bond geometry as shown.
Currently available stereo shown.



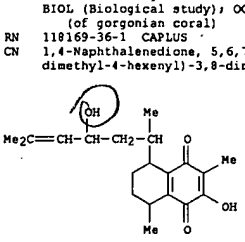
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:108327 CAPLUS
DOCUMENT NUMBER: 128:192798
TITLE: Formation of mansonones from naturally occurring para-benzoquinones
AUTHOR(S): Garcia, Esther; Mendoza, Virgilio; Agustin Guzman, J.
CORPORATE SOURCE: Instituto Investigaciones Quimico-Biologicas, Universidad Michoacana San Nicolas de Hidalgo, Morelia, 58030, Mex.
SOURCE: Natural Product Letters (1997), 11(1), 67-72
CODEN: NPLEEF; ISSN: 1057-5634
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cyclization of perezone and hydroxyperezone with HI, followed by Jones oxidn., converted them into isomansonone A and mansonone A, B, and C.
IT **203174-32-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of mansonones from perezone)
RN 203174-32-7 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)-, (8R)- (9CI) (CA INDEX NAME)

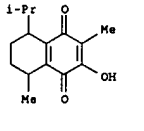
Absolute stereochemistry.



L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1989:21335 CAPLUS
DOCUMENT NUMBER: 110:21335
TITLE: New marine diterpenoids, including a unique hydroperoxide, from a Caribbean gorgonian coral of the genus Pseudopterogorgia
AUTHOR(S): Harvis, Carl A.; Burch, Mark T.; Fenical, William
CORPORATE SOURCE: Inst. Mar. Resourc., Scripps Inst. Oceanogr., La Jolla, CA, 92093-0228, USA
SOURCE: Tetrahedron Letters (1988), 29(35), 4361-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:21335
AB 4 New diterpenoids (I-IV) related to the aglycon components of the recently described pseudopterosins and seco-pseudopterosins have been isolated from an undescribed Pseudopterogorgia species from the Caribbean Sea. The new compds., described on the basis of their NMR properties and chem. interconversions, appear to be related, illustrating some interesting rearrangements of a tertiary hydroperoxide in this series.
IT **118169-36-1**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of gorgonian coral)
RN 118169-36-1 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-(3-hydroxy-1,5-dimethyl-4-hexenyl)-3,8-dimethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1967:105061 CAPLUS
DOCUMENT NUMBER: 66:105061
TITLE: Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Marini-Bettolo, Giovanni B.; Casinovi, Carlo G.; Galeffi, Corrado; Delle Monache, Franco; Del Guercio, G.
CORPORATE SOURCE: Univ. Cattolica, Rome, Italy
SOURCE: Annali dell'Istituto Superiore di Sanita (1966), 2(2-3), 327-41
CODEN: AISSAW; ISSN: 0021-2571
DOCUMENT TYPE: Journal
LANGUAGE: Italian
AB CA 64, 12728d. The wood of M. altissima, which is widely used for furniture making, was studied for the irritating and cardiokinetic substances it contains. By means of column chromatog., the crude CHCl3 ext. of M. altissima was fractionated into 6 new quinones: red mansonone A (I), m. 117-18.degree., [.alpha.]20D 680.degree. (c 0.2, CHCl3); gold-yellow mansonone B (II), 68-9.degree.; orange mansonone C (III), m. 134-8.degree.; orange mansonone D (IV), m. 173-5.degree.; orange-yellow mansonone E (V), m. 148-9.degree.; violet-mansonone F (VI), m. 214-15.degree.. Their structures were partially elucidated by chem. and spectroscopic analysis. A C15 skeleton which is a common feature for the compds. suggests a terpene origin. Two have the structure of oxaphenalene found the 1st time in biflorin. I was easily reduced in H2O with Na hydrosulfite. I was reduced with Zn in Ac2O and pyridine to yield the diacetate, m. 158-60.degree.. Ac2O and NaOAc yielded the acetate, b0.02 120.degree.. II, III, IV, and V were reduced by Na hydrosulfite and reoxidized by air. III with pyridine, Ac2O, and Zn yielded the diacetate, m. 156-8.degree.. Boiling with an acetic acid soln. of o-phenylenediamine yielded the quinoxaline, m. 103-4.degree.. IV did not react with Ac2O and NaOAc. With Zn and Ac2O and pyridine it gave a diacetyl deriv. With o-phenylenediamine and acetate V gave a deriv., m. 148-50.degree.. With Zn, Ac2O, and pyridine V gave a diacetate, m. 110.degree.. VI is very sensitive to light and changes with time, especially in soln.
IT **14375-53-2**
RL: PRP (Properties)
(structure of)
RN 14375-53-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS

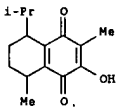
ACCESSION NUMBER: 1966:67994 CAPLUS
DOCUMENT NUMBER: 64:67994
ORIGINAL REFERENCE NO.: 64:12728d-h,12729a
TITLE: New class of quinones. Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Bettolo, G. B. Marini; Casinovi, C. G.; Galeffi, C.
CORPORATE SOURCE: Ist. Super. Sanita, Rome
SOURCE: Tetrahedron Letters (1965), (52), 4857-64
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To sep. the irritative from the cardiac principles, the heartwood of M. altissima was submitted to systematic solvent extn. in which the 2 main pharmacol.-active principles appeared in the CHCl3 and EtOH exts., resp. Column chromatography on SiO2 and Al2O3 from an adequate series of solvents (C6H6, CHCl3, AcOEt) sepd. the CHCl3 irritative fraction into 6 C15-quinones designated as mansononeS A, B, C, D, E, and F, m. 117-18.degree. (C6H12), 68-9.degree. (C6H14), 134-8.degree. (C6H14), 173-5.degree. (C6H12C6H6), 148-9.degree. (C6H12), and 214-15.degree. (C6H6), resp. Mansonone F, C15H12O3, characterized by its deep violet color, was reactive to .omicron.-(H2N)2C6H4, inert to acetylation and lacked OH absorption in the ir spectrum (N.M.R. spectrum given). The presence of a tricyclic 1,2-naphthoquinone (I) with the fragment -CMe:CHO-, in the 3rd ring, similar in structure to dihydrobiflorin was suggested. Mansonone E (II) on reductive acetylation gave a diacetate, C19H20O5, m. 110.degree.. II reacted with .omicron.-(H2N)2C6H4 to give the expected quinoxaline, m. 148-50.degree.. The ir spectra of II was similar to that of tetrahydrobiflorin. Mansonone C (III), gave a quinoxaline deriv., m. 103-4.degree., and was converted by reductive acetylation to a diacetate, m. 156-8.degree.. On the assumption of a common biogenesis with I and II it was deduced that III was identical with the cadalene 7,8-quinone of Lindahl (CA 49, 8223g). Mansonone B (IV) (monoacetate b0.02 120.degree.) .lambda. 263,339, 435 m.mu. (log .epsilon. 4.1, 2.53, 1.8, alc.) may have one of the 2 alternative formulas given. Mansonone A (V) showed absence of aromatic protons and benzylic methylenes and the proposed formulas is in accordance with those of I-IV and with the isoprene rule. V is probably identical with the compd. described by Sandermann and Dietrichs (CA 53, 14351e). Mansonone D (VI) gave no acetate but reacted with .omicron.-(H2N)2C6H4 to give a quinoxaline. A tentative structure was assigned. Spectral data were given for the compds.

IT **14375-53-2**, Mansonone B
(structure of)

RN 14375-53-2 CAPLUS

CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)

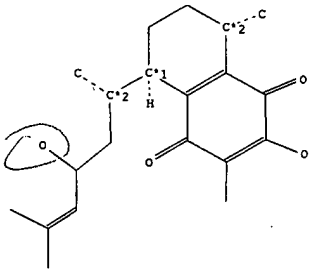


L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)

=> d all 1-2

L8 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL

Beilstein Records (BRN): 5095107
Beilstein Pref. RN (BPR): 118169-36-1
CAS Reg. No. (RN): **118169-36-1**
Chemical Name (CN): 2-hydroxy-5-(3-hydroxy-1,5-dimethyl-hex-4-enyl)-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Autonom Name (AUN): 2-hydroxy-5-(3-hydroxy-1,5-dimethyl-hex-4-enyl)-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Molec. Formula (MF): C20 H28 O4
Molecular Weight (MW): 332.44
Lawson Number (LN): 9791
File Segment (FS): relative configuration, Stereo compound
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 4527263
Tautomer ID (TAUTID): 4874682
Beilstein Citation (BSO): 6-08
Entry Date (DED): 1992/08/28
Update Date (DUPD): 1993/03/20



Atom/Bond Notes:
1. CIP Descriptor: R
2. CIP Descriptor: S
Fragment Notes:
Alternatively represents mirror image
Stereo Descriptor: rel

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1

L8 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)

BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
INP	Isolation from Natural Product	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	2
UVS	UV and Visible Spectrum	2

Isolation from Natural Product:
INP
(INP): Pseudopterogorgia
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): CDCl3
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 13C
Solvents (.SOL): benzene-d6
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Infrared Spectrum:

Description (.KW)	Solvent (.SOL)	Ref.	Note
Bands	CHCl3	1	1

Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Notes(s):

L8 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)
1. 3000 - 1640 cm**(-1)

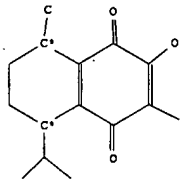
UV and Visible Spectrum:

Description (.KW)	Solvent (.SOL)	Absorption Maxima (nm)	Ext./Abs. Coeff. (.EAC) (I/MOL*CM)	Ref.
Absorption maxima	methanol	326, 281, 223	4600, 7500, 15700	1
Absorption maxima	methanol	321, 279, 220	3100, 8900, 13200	1

Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

L8 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL

Beilstein Records (BRN): 2053092
Beilstein Pref. RN (BPR): 14375-53-2
CAS Reg. No. (RN): **14375-53-2**
Chemical Name (CN): Mansonon B
Autonom Name (AUN): 2-hydroxy-5-isopropyl-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Molec. Formula (MF): C15 H20 O3
Molecular Weight (MW): 248.32
Lawson Number (LN): 9296
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 1884852
Tautomer ID (TAUTID): 2003770
Beilstein Citation (BSO): 5-08
Entry Date (DED): 1989/06/29
Update Date (DUPD): 1992/06/02



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
INP	Isolation from Natural Product	2
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	1
RSTR	Related Structure	1
UVS	UV and Visible Spectrum	1

Related Structure:

L8 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)
RSTR
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

Isolation from Natural Product:
INP
(INP): M. altissima
Reference(s):
1. Marini-Bettolo et al., Ann.Ist.Super.Sanita, CODEN: AISSAW, 2(2-3), <1966>, 327,328-341, Chem.Abstr., 66(105061), <1967>
INP
(INP): a. Mansonia Altissima Cher.
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

Melting Point:

Value (MP) (Cel)	Ref.
68 - 69	1, 2

Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857
2. Marini-Bettolo et al., Ann.Ist.Super.Sanita, CODEN: AISSAW, 2(2-3), <1966>, 327,328-341, Chem.Abstr., 66(105061), <1967>

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

UV and Visible Spectrum:

Description (.KW)	Ref.
Absorption maxima	1

Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

=> d ibib ab fqhit 1-3

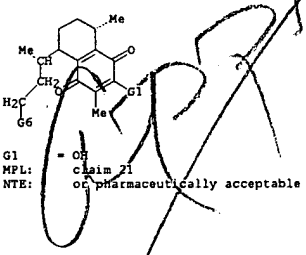
L9 ANSWER 1 OF 3 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 137:98953 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

PRIORITY APPLN. INFO.: US 2000-235160P 20000922

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

MSTR 3



G1 = OH
MPL: claim 21
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

L9 ANSWER 2 OF 3 MARPAT COPYRIGHT 2003 ACS (Continued)
G1 = OH
MPL: claim 21
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

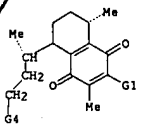
L9 ANSWER 2 OF 3 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 137:15779 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002041521	A5	20020611	AU 2002-41521	20011127

PRIORITY APPLN. INFO.: US 2000-253160P 20001128
WO 2001-US44334 20011127

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

MSTR 3



L9 ANSWER 3 OF 3 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 110:4187 MARPAT
TITLE: Composition and method for rapid differentiation of viable fungi from bacteria using polyene antibiotics
INVENTOR(S): Cichanowicz, Peggy Woodruff; Belly, Robert Troconis
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 261931	A2	19880330	EP 1987-308380	19870922
EP 261931	A3	19891011		
R: CH, DE, FR, GB, LI				
CA 1290226	A1	19911008	CA 1986-523203	19861118

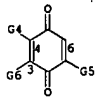
PRIORITY APPLN. INFO.: US 1986-910923 19860924

AB Viable fungi are rapidly differentiated from viable bacteria by incubation with a compn. contg. a polyene antibiotic which affects membrane function in fungi and a compd. [e.g. a RIND compd. (reducible compd. which undergoes intramol. nucleophilic displacement) such as quinone I, where R1 = (R5)mN(R6)QX; R2, R4 = H, (substituted) alkyl or aryl, electron-withdrawing group; R3 = R1, R2; or R3R4 complete a (substituted) strained fused carbocyclic ring; R5 = (substituted) C1-2 alkylene; R6 = (substituted) alkyl, cycloalkyl, aryl, or heterocycle; Q = C(O), C(S); X = shiftable detectable species which provides a detectable species when released; m = 0, 1] which is normally reducible by both fungi and bacteria. The antibiotic selectively inhibits the redn. of the reducible compd. by the fungi but does not affect the reducing capacity of the bacteria. A soln. contg. RIND compd. II, glucose, trimethyl-1,4-benzoquinone (electron transfer agent), buffer, and filipin (polyene antibiotic) at various dilns. was incubated with suspensions of various bacteria and fungi at 37.degree. for 30 min, and the difference in relative fluorescence before and after incubation was measured with excitation at 540 nm and emission at 620 nm. The percent inhibition of redn. of II at 0.52 mg filipin/mL was: Escherichia coli, 0; Staphylococcus aureus, 8.6; Candida albicans, 71.0; Aspergillus flavus, 42.5.

MSTR 18

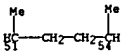
G2—G1

G1 = 6



G5 = OMe
G7 = alkylene<(1-2)> (SO (1-) G11)
G4 +G6 = 51-4 54-3

L9 ANSWER 3 OF 3 MARPAT COPYRIGHT 2003 ACS (Continued)



MPL: claim 4

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1966:67994 CAPLUS
DOCUMENT NUMBER: 64:67994
ORIGINAL REFERENCE NO.: 64:12728d-h,12729a
TITLE: New class of quinones. Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Bettolo, G. B. Marini; Casinovi, C. G.; Galeffi, C.
CORPORATE SOURCE: Ist. Super. Sanita, Rome
SOURCE: Tetrahedron Letters (1965), (52), 4857-64
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To sep. the irritative from the cardiac principles, the heartwood of M. altissima was submitted to systematic solvent extn. in which the 2 main pharmacol.-active principles appeared in the CHCl3 and EtOH exts., resp. Column chromatography on SiO2 and Al2O3 from an adequate series of solvents (C6H6, CHCl3, AcOEt) sepd. the CHCl3 irritative fraction into 6 C15-quinones designated as mansonones A, B, C, D, E, and F, m.. 117-18.degree. (C6H12), 68-9.degree. (C6H14), 134-8.degree. (C6H14), 173-5.degree. (C6H12C6H6), 148-9.degree. (C6H12), and 214-15.degree. (C6H6), resp. Mansonone F, C15H12O3, characterized by its deep violet color, was reactive to .omicron.-(H2N)2C6H4, inert to acetylation and lacked OH absorption in the ir spectrum (N.M.R. spectrum given). The presence of a tricyclic 1,2-naphthoquinone (I) with the fragment -CMe:CHO-, in the 3rd ring, similar in structure to dihydrobiflorin was suggested. Mansonone E (II) on reductive acetylation gave a diacetate, C19H20O5, m. 110.degree.. II reacted with .omicron.-(H2N)2C6H4 to give the expected quinoxaline, m. 148-50.degree.. The ir spectra of II was similar to that of tetrahydrobiflorin. Mansonone C (III), gave a quinoxaline deriv., m. 103-4.degree., and was converted by reductive acetylation to a diacetate, m. 156-8.degree.. On the assumption of a common biogenesis with I and II it was deduced that III was identical with the cadalene 7,8-quinone of Lindahl (CA 49, 8223g). Mansonone B (IV) (monoacetate b0.02 120.degree.) .lambda. 263,339, 435 m.mu. (log .epsilon. 4.1, 2.53, 1.8, alc.) may have one of the 2 alternative formulas given. Mansonone A (V) showed absence of aromatic protons and benzylic methylenes and the proposed formulas is in accordance with those of I-IV and with the isoprene rule. V is probably identical with the compd. described by Sandermann and Dietrichs (CA 53, 14351e). Mansonone D (VI) gave no acetate but reacted with .omicron.-(H2N)2C6H4 to give a quinoxaline. A tentative structure was assigned. Spectral data were given for the compds.

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1966:67993 CAPLUS
DOCUMENT NUMBER: 64:67993
ORIGINAL REFERENCE NO.: 64:12728c-d
TITLE: Terpenoid chemistry. XI. (-)-.beta.-Sesquiphellandrene
AUTHOR(S): Connell, D. W.; Sutherland, M. D.
CORPORATE SOURCE: Univ. Queensland, Brisbane
SOURCE: Australian Journal of Chemistry (1966), 19(2), 283-8
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English

AB cf. CA 62, 5301a; 63, 14915f. A new natural sesquiterpene, (-)-.beta.-sesquiphellandrene (I), b1 90-0.5.degree., n25D 1.4973, d25 0.8760, [.alpha.]29D -3.99.degree. (neat), has been isolated from ginger oil in .apprx.96% purity (principal impurity (-)-.beta.-bisabolene) by distn. and gas chromatography on AgNO3-treated alumina. Rel. retentions for I on Apiezon M, butanediol succinate polyester, castor wax, and cyanosilicone (XF 1150) at 130-85.degree. are given with respect to caryophyllene, humulene, and zingiberene. On hydrogenation I yields bisabolene; reaction with anhyd. HCl in AcOH gives isozingiberene-2HCl. I nitrosite, m. 88-90.degree. (decompn.), [.alpha.]20D 29.degree. (c 1.5, CHCl3), forms with NaNO2. I forms a Diels-Alder adduct with p-phenylazophenylmaleinanil in the presence (but not in the absence) of (CO2H)2, m. 142.degree., [.alpha.]24D -222.degree. (hexane).

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=> d his

     (FILE 'HOME' ENTERED AT 10:46:53 ON 28 MAY 2003)

     FILE 'REGISTRY' ENTERED AT 10:47:14 ON 28 MAY 2003
L1               STRUCTURE UPLOADED
L2             0 S L1
L3             9 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 10:50:41 ON 28 MAY 2003
L4            10 S L3

     FILE 'USPATFULL' ENTERED AT 10:53:47 ON 28 MAY 2003
L5             1 S L3
L6             0 S L5 NOT L4

     FILE 'BEILSTEIN' ENTERED AT 10:54:35 ON 28 MAY 2003
L7             2 S L3
L8             2 S L3 FULL

     FILE 'MARPAT' ENTERED AT 10:55:51 ON 28 MAY 2003
L9             3 S L3 FULL

=> d ibib ab 1-2
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=> d his

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     FILE 'REGISTRY' ENTERED AT 10:47:14 ON 28 MAY 2003
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           9 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 10:50:41 ON 28 MAY 2003
L4          10 S L3

     FILE 'USPATFULL' ENTERED AT 10:53:47 ON 28 MAY 2003
L5           1 S L3
L6           0 S L5 NOT L4

     FILE 'BEILSTEIN' ENTERED AT 10:54:35 ON 28 MAY 2003
L7           2 S L3
L8           2 S L3 FULL

     FILE 'MARPAT' ENTERED AT 10:55:51 ON 28 MAY 2003
L9           3 S L3 FULL

     FILE 'CAOLD' ENTERED AT 10:58:13 ON 28 MAY 2003
L10          1 S L3
               SEL AN 1-

     FILE 'CAPLUS' ENTERED AT 10:58:29 ON 28 MAY 2003
L11          2 S E1/OREF
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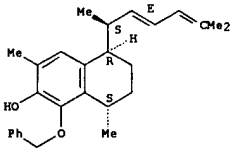
L19 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:736134 CAPLUS
DOCUMENT NUMBER: 130:95692
TITLE: A Direct and Efficient Stereocontrolled Synthetic Route to the Pseudopterosins, Potent Marine Antiinflammatory Agents
AUTHOR(S): Corey, E. J.; Lazerwith, Scott E.
CORPORATE SOURCE: Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA
SOURCE: Journal of the American Chemical Society (1998), 120(49), 12777-12782
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:95692

AB Described herein is a new synthetic route to pseudopterosin aglycon (I), a key intermediate for the synthesis of a group of antiinflammatory natural products including pseudopterosin A and E. The pathway of synthesis starts with the abundant and inexpensive (S)-(-)-limonene and its long-known cyclic hydroboration product (II) and leads to the chiral hydroxy ketone (III). Conversion of III to (IV) followed by a novel arom. annulation produced (V) which underwent a highly diastereoselective cyclization to afford the protected pseudopterosin aglycon (VI). The naturally occurring pseudopterosins A and E are readily available from this key intermediate.

IT **219498-24-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereocontrolled synthesis of pseudopterosin aglycon)

RN 219498-24-5 CAPLUS
CN 2-Naphthalenol, 5-[(1S,2E)-1,5-dimethyl-2,4-hexadienyl]-5,6,7,8-tetrahydro-3,8-dimethyl-1-(phenylmethoxy)-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

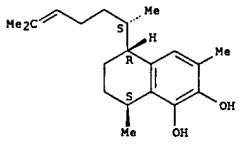
L19 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:159578 CAPLUS
DOCUMENT NUMBER: 128:230537
TITLE: Preparation of helioporin D from the seco-pseudopterosin aglycon: revision of the stereostructure of helioporin D
AUTHOR(S): Geller, Thomas; Jakupovic, Jasmin; Schmalz, Hans-Gunther
CORPORATE SOURCE: Institut fur Organische Chemie der Technischen Universitat, Berlin, D-10623, Germany
SOURCE: Tetrahedron Letters (1998), 39(12), 1541-1544
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A revised stereostructure for helioporin D (I) was unequivocally established by its synthesis from the seco-pseudopterosin aglycon and by careful anal. of NMR data. As the corresponding benzodioxole derived from the pseudopterosin A aglycon was not identical with helioporin E, it was proven that helioporin D and E do not belong to the same stereochem. series.

IT **199439-75-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and revision of stereostructure of helioporin D)

RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



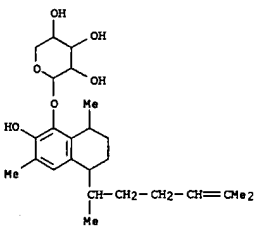
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:749996 CAPLUS
DOCUMENT NUMBER: 128:34906
TITLE: Enantioselective synthesis of the aglycons of pseudopterosin A and seco-pseudopterosin A via a common synthetic intermediate
AUTHOR(S): Majdalani, Andre; Schmalz, Hans Guenther
CORPORATE SOURCE: Institut Organische Chemie, Technische Universitaet Berlin, Berlin, D-10623, Germany
SOURCE: Synlett (1997), (11), 1303-1305
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A synthesis proceeding in 12 steps from the chiral building block I to the key intermediate II (R = SO2Ph) from which both the title compds. are easily accessible in 2 steps is reported.

IT **111466-65-0P**, Secopseudopterosin A
RL: PNU (Preparation, unclassified); PREP (Preparation)
(stereoselective synthesis of pseudopterosine and seco-pseudopterosine aglycons)

RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)

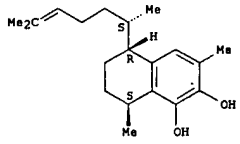


IT **199439-75-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of pseudopterosine and seco-pseudopterosine aglycons)

RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



=> d ibib ab hitstr 1-10

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:522625 CAPLUS
DOCUMENT NUMBER: 137:98953
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

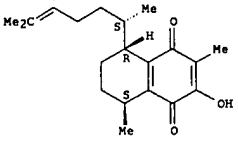
PRIORITY APPLN. INFO.: US 2000-235160P P 20000922
OTHER SOURCE(S): MARPAT 137:98953

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

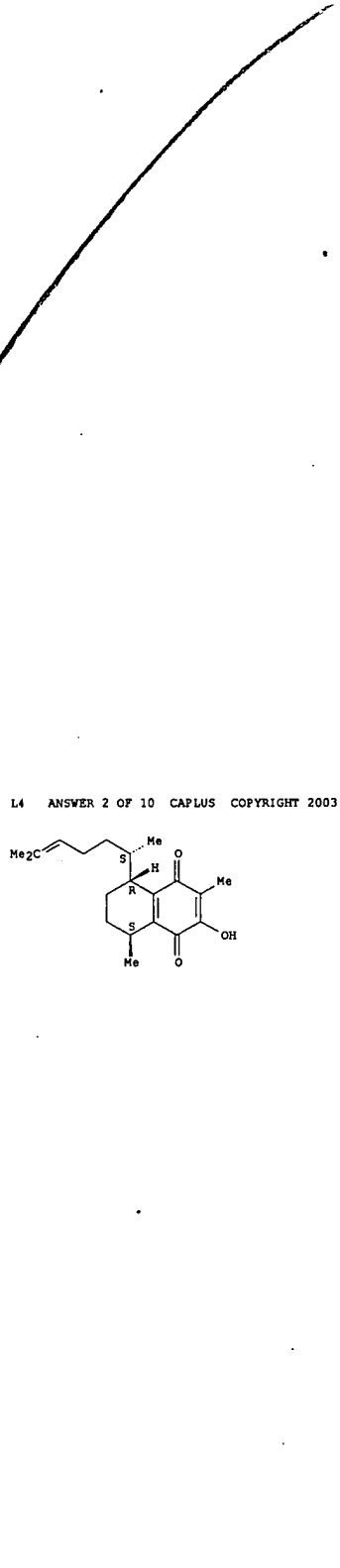
IT **433717-71-6**, Elisabethadione
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)

RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)



L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:428919 CAPLUS
DOCUMENT NUMBER: 137:15779
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002041521	A5	20020611	AU 2002-41521	20011127

PRIORITY APPLN. INFO.: US 2000-253160P P 20001128
WO 2001-US44334 W 20011127

OTHER SOURCE(S): MARPAT 137:15779

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

IT **433717-71-6P**, Elisabethadione
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)

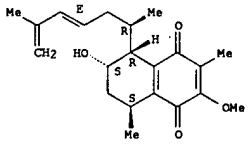
RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:11433 CAPLUS
DOCUMENT NUMBER: 136:279574
TITLE: Total synthesis of colombiasin A and determination of its absolute configuration
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Chemistry--A European Journal (2001), 7(24), 5359-5371
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The total synthesis of the recently reported marine natural product colombiasin A (I) and detn. of its abs. configuration are reported. Two Diels - Alder cycloaddns. and a palladium-catalyzed rearrangement are employed as key reactions to construct the tetracyclic framework of the target mol. The enantioselective synthesis of colombiasin A utilizes Mikami's [(S)-BINOL-TiCl2] catalyst to asym. introduce the first chiral center during the initial Diels - Alder reaction and, in conjunction with X-ray crystallog. anal. of a bromine contg. deriv., led to the assignment of the abs. configuration of the natural product.
IT **362650-95-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A and detn. of its abs. configuration)
RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

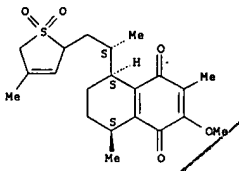
Relative stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:831849 CAPLUS
DOCUMENT NUMBER: 136:151319
TITLE: Towards colombiasin A
AUTHOR(S): Harrowven, David C.; Tyte, Melloney J.
CORPORATE SOURCE: Department of Chemistry, The University of Southampton, Southampton, SO17 1BJ, UK
SOURCE: Tetrahedron Letters (2001), 42(49), 8709-8711
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A synthetic route to an diastereomerically unnatural analog I of colombiasin A (II) is described. Key features are an arene alkylation with a .gamma.-methylene-.gamma.-butyrolactone and an intramol. Diels-Alder cycloaddn.
IT **394739-50-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthetic studies directed towards colombiasin A)
RN 394739-50-5 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, (5R,8R)-rel- (9CI) (CA INDEX NAME)

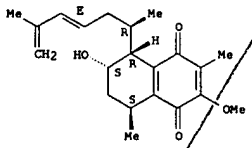
Relative stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:516801 CAPLUS
DOCUMENT NUMBER: 135:273093
TITLE: Total synthesis of Colombiasin A
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Angewandte Chemie, International Edition (2001), 40(13), 2482-2486
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:273093
AB The authors report the total synthesis of racemic colombiasin A (I) by a strategy which also delivered its C7 epimer as well as several other analogs.
IT **362650-95-1P 362651-05-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A)
RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

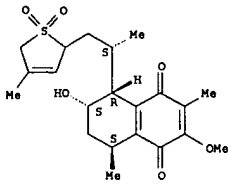
Relative stereochemistry.
Double bond geometry as shown.



RN 362651-05-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5S,6R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

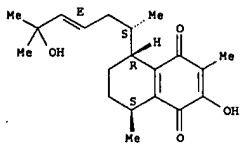
L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:895538 CAPLUS
DOCUMENT NUMBER: 134:160401
TITLE: Structurally diverse terpenoids from the sea whip Pseudopterogorgia elisabethae (Bayer)
AUTHOR(S): Rodriguez, A. D.; Shi, Y.-P.
CORPORATE SOURCE: Department of Chemistry, University of Puerto Rico, San Juan, 00931-3346, P. R.
SOURCE: Tetrahedron (2000), 56(46), 9015-9023
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The extn. of a specimen of Pseudopterogorgia elisabethae from Colombia afforded three new diterpenes (I-III), a norditerpene (IV), and a tetrisnorditerpene (V). Metabolites IV and V contain unusual carbon skeletons that are previously undescribed and therefore constitute new classes of C19 and C16 rearranged terpenes, resp. Full details of the isolation and structure elucidation of I-V, which were established by spectroscopic methods including comprehensive 2D NMR measurements, are provided herein.
IT **325691-48-3P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(terpenoids from sea whip Pseudopterogorgia elisabethae)
RN 325691-48-3 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-[(1R,3E)-5-hydroxy-1,5-dimethyl-3-hexenyl]-3,8-dimethyl-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

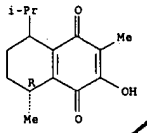
Rotation (+). Absolute stereochemistry unknown.
Double bond geometry as shown.
Currently available stereo shown.



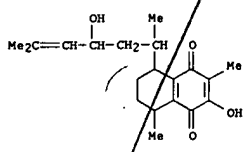
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:108327 CAPLUS
DOCUMENT NUMBER: 128:192798
TITLE: Formation of mansonones from naturally occurring para-benzoquinones
AUTHOR(S): Garcia, Esther; Mendoza, Virgilio; Agustin Guzman, J.
CORPORATE SOURCE: Instituto Investigaciones Quimico-Biologicas, Universidad Michoacana San Nicolas de Hidalgo, Morelia, 58030, Mex.
SOURCE: Natural Product Letters (1997), 11(1), 67-72
CODEN: NPLEEF; ISSN: 1057-5634
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cyclization of perezone and hydroxyperezone with HI, followed by Jones oxidn., converted them into isomansonone A and mansonone A, B, and C.
IT **203174-32-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of mansonones from perezone)
RN 203174-32-7 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)-, (8R)- (9CI) (CA INDEX NAME)

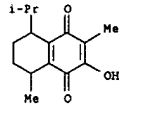
Absolute stereochemistry.



L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1989:21335 CAPLUS
DOCUMENT NUMBER: 110:21335
TITLE: New marine diterpenoids, including a unique hydroperoxide, from a Caribbean gorgonian coral of the genus Pseudopterogorgia
AUTHOR(S): Harvis, Carl A.; Burch, Mark T.; Fenical, William
CORPORATE SOURCE: Inst. Mar. Resourc., Scripps Inst. Oceanogr., La Jolla, CA, 92093-0228, USA
SOURCE: Tetrahedron Letters (1988), 29(35), 4361-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:21335
AB 4 New diterpenoids (I-IV) related to the aglycon components of the recently described pseudopterosins and seco-pseudopterosins have been isolated from an undescribed Pseudopterogorgia species from the Caribbean Sea. The new compds., described on the basis of their NMR properties and chem. interconversions, appear to be related, illustrating some interesting rearrangements of a tertiary hydroperoxide in this series.
IT **118169-36-1**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of gorgonian coral)
RN 118169-36-1 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-(3-hydroxy-1,5-dimethyl-4-hexenyl)-3,8-dimethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1967:105061 CAPLUS
DOCUMENT NUMBER: 66:105061
TITLE: Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Marini-Bettolo, Giovanni B.; Casinovi, Carlo G.; Galeffi, Corrado; Delle Monache, Franco; Del Guercio, G.
CORPORATE SOURCE: Univ. Cattolica, Rome, Italy
SOURCE: Annali dell'Istituto Superiore di Sanita (1966), 2(2-3), 327-41
CODEN: AISSAW; ISSN: 0021-2571
DOCUMENT TYPE: Journal
LANGUAGE: Italian
AB CA 64, 12728d. The wood of M. altissima, which is widely used for furniture making, was studied for the irritating and cardiokinetic substances it contains. By means of column chromatog., the crude CHCl3 ext. of M. altissima was fractionated into 6 new quinones: red mansonone A (I), m. 117-18.degree., [.alpha.]20D 680.degree. (c 0.2, CHCl3); gold-yellow mansonone B (II), 68-9.degree.; orange mansonone C (III), m. 134-8.degree.; orange mansonone D (IV), m. 173-5.degree.; orange-yellow mansonone E (V), m. 148-9.degree.; violet-mansonone F (VI), m. 214-15.degree.. Their structures were partially elucidated by chem. and spectroscopic analysis. A C15 skeleton which is a common feature for the compds. suggests a terpene origin. Two have the structure of oxaphenalene found the 1st time in biflorin. I was easily reduced in H2O with Na hydrosulfite. I was reduced with Zn in Ac2O and pyridine to yield the diacetate, m. 158-60.degree.. Ac2O and NaOAc yielded the acetate, b0.02 120.degree.. II, III, IV, and V were reduced by Na hydrosulfite and reoxidized by air. III with pyridine, Ac2O, and Zn yielded the diacetate, m. 156-8.degree.. Boiling with an acetic acid soln. of o-phenylenediamine yielded the quinoxaline, m. 103-4.degree.. IV did not react with Ac2O and NaOAc. With Zn and Ac2O and pyridine it gave a diacetyl deriv. With o-phenylenediamine and acetate V gave a deriv., m. 148-50.degree.. With Zn, Ac2O, and pyridine V gave a diacetate, m. 110.degree.. VI is very sensitive to light and changes with time, especially in soln.
IT **14375-53-2**
RL: PRP (Properties)
(structure of)
RN 14375-53-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS

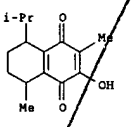
ACCESSION NUMBER: 1966:67994 CAPLUS
DOCUMENT NUMBER: 64:67994
ORIGINAL REFERENCE NO.: 64:12728d-h,12729a
TITLE: New class of quinones. Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Bettolo, G. B. Marini; Casinovi, C. G.; Galeffi, C.
CORPORATE SOURCE: 1st. Super. Sanita, Rome
SOURCE: Tetrahedron Letters (1965), (52), 4857-64
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To sep. the irritative from the cardiac principles, the heartwood of M. altissima was submitted to systematic solvent extn. in which the 2 main pharmacol.-active principles appeared in the CHCl3 and EtOH exts., resp. Column chromatography on SiO2 and Al2O3 from an adequate series of solvents (C6H6, CHCl3, AcOEt) sepd. the CHCl3 irritative fraction into 6 C15-quinones designated as mansonones A, B, C, D, E, and F, m. 117-18.degree. (C6H12), 68-9.degree. (C6H14), 134-8.degree. (C6H14), 173-5.degree. (C6H12C6H6), 148-9.degree. (C6H12), and 214-15.degree. (C6H6), resp. Mansonone F, C15H12O3, characterized by its deep violet color, was reactive to .omicron.-(H2N)2C6H4, inert to acetylation and lacked OH absorption in the ir spectrum (N.M.R. spectrum given). The presence of a tricyclic 1,2-naphthoquinone (I) with the fragment -CMe:CHO-, in the 3rd ring, similar in structure to dihydrobiflorin was suggested. Mansonone E (II) on reductive acetylation gave a diacetate, C19H20O5, m. 110.degree.. II reacted with .omicron.-(H2N)2C6H4 to give the expected quinoxaline, m. 148-50.degree.. The ir spectra of II was similar to that of tetrahydrobiflorin. Mansonone C (III), gave a quinoxaline deriv., m. 103-4.degree., and was converted by reductive acetylation to a diacetate, m. 156-8.degree.. On the assumption of a common biogenesis with I and II it was deduced that III was identical with the cadalene 7,8-quinone of Lindahl (CA 49, 8223g). Mansonone B (IV) (monoacetate b0.02 120.degree.) .lambda. 263,339, 435 m.mu. (log .epsilon. 4.1, 2.53, 1.8, alc.) may have one of the 2 alternative formulas given. Mansonone A (V) showed absence of aromatic protons and benzylic methylenes and the proposed formulas is in accordance with those of I-IV and with the isoprene rule. V is probably identical with the compd. described by Sandermann and Dietrichs (CA 53, 14351e). Mansonone D (VI) gave no acetate but reacted with .omicron.-(H2N)2C6H4 to give a quinoxaline. A tentative structure was assigned. Spectral data were given for the compds.

IT **14375-53-2**, Mansonone B
(structure of)

RN 14375-53-2 CAPLUS

CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)

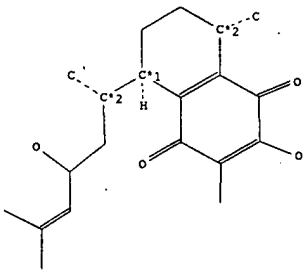


L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS (Continued)

=> d all 1-2

L8 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL

Beilstein Records (BRN): 5095107
Beilstein Pref. RN (BPR): 118169-36-1
CAS Reg. No. (RN): **118169-36-1**
Chemical Name (CN): 2-hydroxy-5-(3-hydroxy-1,5-dimethyl-hex-4-enyl)-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Autonom Name (AUN): 2-hydroxy-5-(3-hydroxy-1,5-dimethyl-hex-4-enyl)-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Molec. Formula (MF): C20 H28 O4
Molecular Weight (MW): 332.44
Lawson Number (LN): 9791
File Segment (FS): relative configuration, Stereo compound
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 4527263
Tautomer ID (TAUTID): 4874682
Beilstein Citation (BSO): 6-08
Entry Date (DED): 1992/08/28
Update Date (DUPD): 1993/03/20



Atom/Bond Notes:
1. CIP Descriptor: R
2. CIP Descriptor: S
Fragment Notes:
Alternatively represents mirror image
Stereo Descriptor: rel

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1

L8 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)
1. 3000 - 1640 cm**(-1)

UV and Visible Spectrum:

Description (.KW)	Solvent (.SOL)	Absorption Maxima (.AM) (nm)	Ext./Abs. Coeff. (.EAC) (I/MOL*CM)	Ref.
Absorption maxima	methanol	326, 281, 223	4600, 7500, 15700	1
Absorption maxima	methanol	321, 279, 220	3100, 8900, 13200	1

Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

L8 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)

BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
INP	Isolation from Natural Product	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	2
UVS	UV and Visible Spectrum	2

Isolation from Natural Product:
INP
(INP): Pseudopterogorgia
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): CDCl3
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 13C
Solvents (.SOL): benzene-d6
Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Infrared Spectrum:

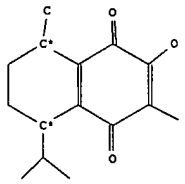
Description (.KW)	Solvent (.SOL)	Ref.	Note
Bands	CHCl3	1	1

Reference(s):
1. Harvis, Carl A.; Burch, Mark T.; Fenical, William, Tetrahedron Lett., CODEN: TELEAY, 29(35), <1988>, 4361-4364; BABS-5612346

Notes(s):

L8 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL

Beilstein Records (BRN): 2053092
Beilstein Pref. RN (BPR): 14375-53-2
CAS Reg. No. (RN): **14375-53-2**
Chemical Name (CN): Mansonon B
Autonom Name (AUN): 2-hydroxy-5-isopropyl-3,8-dimethyl-5,6,7,8-tetrahydro-<1,4>naphthoquinone
Molec. Formula (MF): C15 H20 O3
Molecular Weight (MW): 248.32
Lawson Number (LN): 9296
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 1884852
Tautomer ID (TAUTID): 2003770
Beilstein Citation (BSO): 5-08
Entry Date (DED): 1989/06/29
Update Date (DUPD): 1992/06/02



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
INP	Isolation from Natural Product	2
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	1
RSTR	Related Structure	1
UVS	UV and Visible Spectrum	1

Related Structure:

L8 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)
RSTR
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

Isolation from Natural Product:
INP
(INP): M. altissima
Reference(s):
1. Marini-Bettolo et al., Ann.Ist.Super.Sanita, CODEN: AISSAW, 2(2-3), <1966>, 327,328-341, Chem.Abstr., 66(105061), <1967>
INP
(INP): a. Mansonia Altissima Cher.
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

Melting Point:

Value (MP) (Cel)	Ref.
68 - 69	1, 2

Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857
2. Marini-Bettolo et al., Ann.Ist.Super.Sanita, CODEN: AISSAW, 2(2-3), <1966>, 327,328-341, Chem.Abstr., 66(105061), <1967>

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

UV and Visible Spectrum:

Description (.KW)	Ref.
Absorption maxima	1

Reference(s):
1. Bettolo et al., Tetrahedron Lett., CODEN: TELEAY, <1965>, 4857

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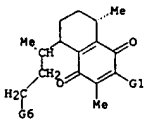
L9 ANSWER 1 OF 3 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 137:98953 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

PRIORITY APPLN. INFO.: US 2000-235160P 20000922

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

MSTR 3



G1 = OH
MPL: claim 21
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

L9 ANSWER 2 OF 3 MARPAT COPYRIGHT 2003 ACS (Continued)
G1 = OH
MPL: claim 21
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

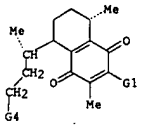
L9 ANSWER 2 OF 3 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 137:15779 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002041521	A5	20020611	AU 2002-41521	20011127

PRIORITY APPLN. INFO.: US 2000-253160P 20001128
WO 2001-US44334 20011127

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

MSTR 3



L9 ANSWER 3 OF 3 MARPAT COPYRIGHT 2003 ACS
ACCESSION NUMBER: 110:4187 MARPAT
TITLE: Composition and method for rapid differentiation of viable fungi from bacteria using polyene antibiotics
INVENTOR(S): Cichanowicz, Peggy Woodruff; Belly, Robert Troconis
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 261931	A2	19880330	EP 1987-308380	19870922
EP 261931	A3	19891011		
R: CH, DE, FR, GB, LI				
CA 1290226	A1	19911008	CA 1986-523203	19861118

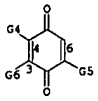
PRIORITY APPLN. INFO.: US 1986-910923 19860924

AB Viable fungi are rapidly differentiated from viable bacteria by incubation with a compn. contg. a polyene antibiotic which affects membrane function in fungi and a compd. [e.g. a RIND compd. (reducible compd. which undergoes intramol. nucleophilic displacement) such as quinone I, where R1 = (R5)m-N(R6)QX; R2, R4 = H, (substituted) alkyl or aryl, electron-withdrawing group; R3 = R1, R2; or R3R4 complete a (substituted) strained fused carbocyclic ring; R5 = (substituted) C1-2 alkylene; R6 = (substituted) alkyl, cycloalkyl, aryl, or heterocycle; Q = C(O), C(S); X = shiftable detectable species which provides a detectable species when released; m = 0, 1] which is normally reducible by both fungi and bacteria. The antibiotic selectively inhibits the redn. of the reducible compd. by the fungi but does not affect the reducing capacity of the bacteria. A soln. contg. RIND compd. II, glucose, trimethyl-1,4-benzoquinone (electron transfer agent), buffer, and filipin (polyene antibiotic) at various dilns. was incubated with suspensions of various bacteria and fungi at 37.degree. for 30 min, and the difference in relative fluorescence before and after incubation was measured with excitation at 540 nm and emission at 620 nm. The percent inhibition of redn. of II at 0.52 mg filipin/mL was: Escherichia coli, 0; Staphylococcus aureus, 8.6; Candida albicans, 71.0; Aspergillus flavus, 42.5.

MSTR 1B

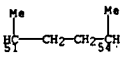
G2—G1

G1 = 6



G5 = OMe
G7 = alkylene<(1-2)> (SO (1-) G11)
G4 +G6 = 51-4 54-3

L9 ANSWER 3 OF 3 MARPAT COPYRIGHT 2003 ACS (Continued)



MPL: claim 4

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     FILE 'REGISTRY' ENTERED AT 10:47:14 ON 28 MAY 2003
L1             STRUCTURE UPLOADED
L2               0 S L1
L3               9 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 10:50:41 ON 28 MAY 2003
L4              10 S L3

     FILE 'USPATFULL' ENTERED AT 10:53:47 ON 28 MAY 2003
L5               1 S L3
L6               0 S L5 NOT L4

     FILE 'BEILSTEIN' ENTERED AT 10:54:35 ON 28 MAY 2003
L7               2 S L3
L8               2 S L3 FULL

     FILE 'MARPAT' ENTERED AT 10:55:51 ON 28 MAY 2003
L9               3 S L3 FULL

=> d ibib ab 1-2
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L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1966:67994 CAPLUS
DOCUMENT NUMBER: 64:67994
ORIGINAL REFERENCE NO.: 64:12728d-h,12729a
TITLE: New class of quinones. Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Bettolo, G. B. Marini; Casinovi, C. G.; Galeffi, C.
CORPORATE SOURCE: Ist. Super. Sanita, Rome
SOURCE: Tetrahedron Letters (1965), (52), 4857-64
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
AB To sep. the irritative from the cardiac principles, the heartwood of M. altissima was submitted to systematic solvent extn. in which the 2 main pharmacol.-active principles appeared in the CHCl3 and EtOH exts., resp. Column chromatography on SiO2 and Al2O3 from an adequate series of solvents (C6H6, CHCl3, AcOEt) sepd. the CHCl3 irritative fraction into 6 C15-quinones designated as mansonones A, B, C, D, E, and F, m. 117-18.degree. (C6H12), 68-9.degree. (C6H14), 134-8.degree. (C6H14), 173-5.degree. (C6H12C6H6), 148-9.degree. (C6H12), and 214-15.degree. (C6H6), resp. Mansonone F, C15H12O3, characterized by its deep violet color, was reactive to .omicron.-(H2N)2C6H4, inert to acetylation and lacked OH absorption in the ir spectrum (N.M.R. spectrum given). The presence of a tricyclic 1,2-naphthoquinone (I) with the fragment -CMe:CHO-, in the 3rd ring, similar in structure to dihydrobiflorin was suggested. Mansonone E (II) on reductive acetylation gave a diacetate, C19H20O5, m. 110.degree.. II reacted with .omicron.-(H2N)2C6H4 to give the expected quinoxaline, m. 148-50.degree.. The ir spectra of II was similar to that of tetrahydrobiflorin. Mansonone C (III), gave a quinoxaline deriv., m. 103-4.degree., and was converted by reductive acetylation to a diacetate, m. 156-8.degree.. On the assumption of a common biogenesis with I and II it was deduced that III was identical with the cadalene 7,8-quinone of Lindahl (CA 49, 8223g). Mansonone B (IV) (monoacetate b0.02 120.degree.) .lambda. 263,339, 435 m.mu. (log .epsilon. 4.1, 2.53, 1.8, alc.) may have one of the 2 alternative formulas given. Mansonone A (V) showed absence of aromatic protons and benzylic methylenes and the proposed formulas is in accordance with those of I-IV and with the isoprene rule. V is probably identical with the compd. described by Sandermann and Dietrichs (CA 53, 14351e). Mansonone D (VI) gave no acetate but reacted with .omicron.-(H2N)2C6H4 to give a quinoxaline. A tentative structure was assigned. Spectral data were given for the compds.

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1966:67993 CAPLUS
DOCUMENT NUMBER: 64:67993
ORIGINAL REFERENCE NO.: 64:12728c-d
TITLE: Terpenoid chemistry. XI. (-)-.beta.-Sesquiphellandrene
AUTHOR(S): Connell, D. W.; Sutherland, M. D.
CORPORATE SOURCE: Univ. Queensland, Brisbane
SOURCE: Australian Journal of Chemistry (1966), 19(2), 283-8
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
AB cf. CA 62, 5301a; 63, 14915f. A new natural sesquiterpene, (-)-.beta.-sesquiphellandrene (I), b1 90-0.5.degree., n25D 1.4973, d25 0.8760, [.alpha.]29D -3.99.degree. (neat), has been isolated from ginger oil in .apprx.96% purity (principal impurity (-)-.beta.-bisabolene) by distn. and gas chromatography on AgNO3-treated alumina. Rel. retentions for I on Apiezon M, butanediol succinate polyester, castor wax, and cyanosilicone (XF 1150) at 130-85.degree. are given with respect to caryophyllene, humulene, and zingiberene. On hydrogenation I yields bisabolene; reaction with anhyd. HCl in AcOH gives isozingiberene-2HCl. I nitrosite, m. 88-90.degree. (decompn.), [.alpha.]20D 29.degree. (c 1.5, CHCl3), forms with NaNO2. I forms a Diels-Alder adduct with p-phenylazophenylmaleinanil in the presence (but not in the absence) of (CO2H)2, m. 142.degree., [.alpha.]24D -222.degree. (hexane).

```
=> d his

     (FILE 'HOME' ENTERED AT 10:46:53 ON 28 MAY 2003)

     FILE 'REGISTRY' ENTERED AT 10:47:14 ON 28 MAY 2003
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L3             9 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 10:50:41 ON 28 MAY 2003
L4            10 S L3

     FILE 'USPATFULL' ENTERED AT 10:53:47 ON 28 MAY 2003
L5             1 S L3
L6             0 S L5 NOT L4

     FILE 'BEILSTEIN' ENTERED AT 10:54:35 ON 28 MAY 2003
L7             2 S L3
L8             2 S L3 FULL

     FILE 'MARPAT' ENTERED AT 10:55:51 ON 28 MAY 2003
L9             3 S L3 FULL

     FILE 'CAOLD' ENTERED AT 10:58:13 ON 28 MAY 2003
L10            1 S L3
                 SEL AN 1-

     FILE 'CAPLUS' ENTERED AT 10:58:29 ON 28 MAY 2003
L11            2 S E1/OREF

=> d his

     (FILE 'HOME' ENTERED AT 11:34:44 ON 28 MAY 2003)

     FILE 'REGISTRY' ENTERED AT 11:34:50 ON 28 MAY 2003
L1                STRUCTURE UPLOADED
L2             0 S L1
L3             0 S L1 FULL

     FILE 'MARPAT' ENTERED AT 11:35:47 ON 28 MAY 2003
L4             0 S L2 FULL

     FILE 'BEILSTEIN' ENTERED AT 11:36:14 ON 28 MAY 2003
L5             0 S L1 FULL

=> d l1
L1 HAS NO ANSWERS
L1                STR
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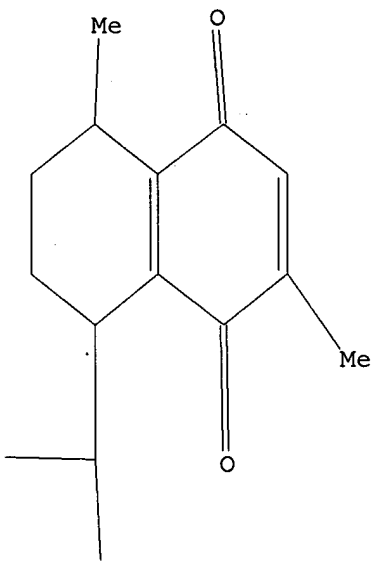

Structure attributes must be viewed using STN Express query preparation.

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L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

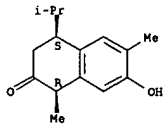
ACCESSION NUMBER: 1995:685196 CAPLUS
DOCUMENT NUMBER: 123:139084
TITLE: Cadinane-type sesquiterpenes induced in Gossypium cotyledons by bacterial inoculation
AUTHOR(S): Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret
CORPORATE SOURCE: Dep. Biochem. Mol. Biol., Oklahoma State Univ., Stillwater, OK, 74078-0454, USA
SOURCE: Phytochemistry (1995), 39(3), 531-6
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Two new sesquiterpenes, the cis- and trans-diastereomers of 7-hydroxycalamenen-2-one, as well as trans-7-hydroxycalamenene, were identified in exts. from cotyledons of bacterial blight-resistant Gossypium hirsutum harvested during the period of sesquiterpenoid phytoalexin biosynthesis following inoculation with the bacterial pathogen Xanthomonas campestris pv. malvacearum. The cis- and trans-diastereomers were distinguished by NOE correlations predicted from mol. modeling calcns.

IT **155662-80-9 155662-81-0**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(in cotton resistant to Xanthomonas campestris pv. malvacearum)

RN 155662-80-9 CAPLUS
CN 2(1H)-Naphthalenone, 3,4-dihydro-7-hydroxy-1,6-dimethyl-4-(1-methylethyl)-, (1R,4S)-rel- (9CI) (CA INDEX NAME)

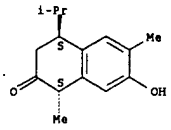
Relative stereochemistry.



RN 155662-81-0 CAPLUS
CN 2(1H)-Naphthalenone, 3,4-dihydro-7-hydroxy-1,6-dimethyl-4-(1-methylethyl)-, (1R,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

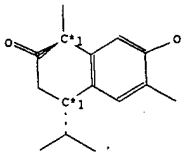
L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS (Continued)



=> d all 16 1-2

L6 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL

Beilstein Records (BRN):	7337266
Beilstein Pref. RN (BPR):	155662-81-0
CAS Reg. No. (RN):	155662-81-0
Chemical Name (CN):	trans-7-hydroxycalamenen-2-one
Autonom Name (AUN):	7-hydroxy-4-isopropyl-1,6-dimethyl-3,4-dihydro-1H-naphthalen-2-one
Molec. Formula (MF):	C15 H20 O2
Molecular Weight (MW):	232.32
Lawson Number (LN):	8807
File Segment (FS):	racemate, Stereo compound
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	6257053
Tautomer ID (TAUTID):	6931265
Beilstein Citation (BSO):	6-08
Entry Date (DED):	1996/02/01
Update Date (DUPD):	1996/11/12



Atom/Bond Notes:
1. CIP Descriptor: S
Fragment Notes:
Additionally represents mirror image
Stereo Descriptor: +/-

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1

L6 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)

Description (.KW)	Solvent (.SOL)	Ref.	Note
Bands	CHCl3	1	1

Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Notes(s):
1. 3385 - 1618 cm**(-1)

UV and Visible Spectrum:

Description (.KW)	Solvent (.SOL)	Absorption Maxima (.AM) (nm)	Ext./Abs. Coeff. (.EAC) (I/MOL*CM)	Ref.
Absorption maxima	ethanol	207.4, 284.6	21135, 3243	1

Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Mass Spectrum:
MS
Description (.KW): spectrum
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

L6 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)

ED	Entry Date	1
UPD	Update Date	1
CDIC	Circular Dichroism	1
INP	Isolation from Natural Product	1
IR	Infrared Spectrum	1
MS	Mass Spectrum	1
NMR	Nuclear Magnetic Resonance	3
UVS	UV and Visible Spectrum	1

Isolation from Natural Product:
INP
(INP): bacteria-inoculated cotyledons of Gossypium hirsutum
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Circular Dichroism:
CDIC
Solvent (.SOL): ethanol
Note(s) (.COM): 293.2 nm
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): CDCl3
Temperature (.T): 8 Cel
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

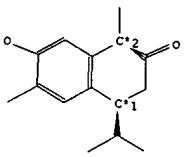
NMR
Description (.KW): NOE
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

NMR
Description (.KW): Spin-spin coupling constants
Solvents (.SOL): CDCl3
Temperature (.T): 8 Cel
Note(s) (.COM): 1H-1H.
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Infrared Spectrum:

L6 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL

Beilstein Records (BRN):	7337265
Beilstein Pref. RN (BPR):	155662-80-9
CAS Reg. No. (RN):	155662-80-9
Chemical Name (CN):	cis-7-hydroxycalamenen-2-one
Autonom Name (AUN):	7-hydroxy-4-isopropyl-1,6-dimethyl-3,4-dihydro-1H-naphthalen-2-one
Molec. Formula (MF):	C15 H20 O2
Molecular Weight (MW):	232.32
Lawson Number (LN):	8807
File Segment (FS):	racemate, Stereo compound
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	6257053
Tautomer ID (TAUTID):	6931265
Beilstein Citation (BSO):	6-08
Entry Date (DED):	1996/02/01
Update Date (DUPD):	1996/11/12



Atom/Bond Notes:
1. CIP Descriptor: S
2. CIP Descriptor: R
Fragment Notes:
Additionally represents mirror image
Stereo Descriptor: +/-

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1

L6 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)

UPD	Update Date	1
INP	Isolation from Natural Product	1
MS	Mass Spectrum	1
NMR	Nuclear Magnetic Resonance	6

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Isolation from Natural Product:
INP
(INP): bacteria-inoculated cotyledons of Gossypium hirsutum
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Nuclear Magnetic Resonance:
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): CDCl3
Temperature (.T): 8 Cel
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): CDCl3
Temperature (.T): 12 Cel
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046
NMR
Description (.KW): Chemical shifts
Nucleus (.NUC): 13C
Solvents (.SOL): CDCl3
Temperature (.T): 12 Cel
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046
NMR
Description (.KW): NOE
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046
NMR

L6 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL (Continued)
Description (.KW): Spin-spin coupling constants
Solvents (.SOL): CDCl3
Temperature (.T): 8 Cel
Note(s) (.COM): 1H-1H.
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046
NMR
Description (.KW): Spin-spin coupling constants
Solvents (.SOL): CDCl3
Temperature (.T): 12 Cel
Note(s) (.COM): 1H-1H.
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Mass Spectrum:
MS
Description (.KW): spectrum
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

Reaction:
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Reaction ID (.ID): 4289276
Reactant BRN (.RBRN): 7337454
Reactant (.RCT): 4-isopropyl-7-methoxy-1,6-dimethyl-3,4-dihydro-1H-naphthalen-2-one
Product BRN (.PBRN): 7337265
Product (.PRO): 7-hydroxy-4-isopropyl-1,6-dimethyl-3,4-dihydro-1H-naphthalen-2-one
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 4289276.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): BBr3
Reference(s):
1. Davila-Huerta, Guadalupe; Hamada, Hiroki; Davis, Gordon D.; Stipanovic, Robert D.; Adams, Christopher M.; Essenberg, Margaret, Phytochemistry, CODEN: PYTCAS, 39(3), <1995>, 531-536; BABS-5970046

=> d ibib ab hitstr 1-22 l19

L19 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:300831 CAPLUS
DOCUMENT NUMBER: 138:300379
TITLE: Pseudopterosin compounds of Symbiodinium strains isolated from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell; Mydlarz, Laura
PATENT ASSIGNEE(S): The Regents of the University of California, USA
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003030820	A2	20030417	WO 2002-US31757	20021004

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

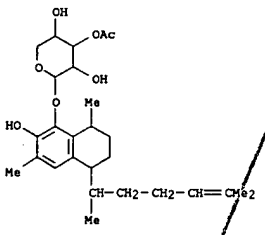
PRIORITY APPLN. INFO.: US 2001-327028P P 20011005
US 2001-340833P P 20011219

AB Disclosed herein are pseudopterosin compds. obtained from Symbiodinium spp. symbionts. Also disclosed are methods of obtaining, isolating, purifying or prepg. at least one pseudopterosin compd. comprising obtaining, isolating, purifying or prepg. the pseudopterosin compd. from at least one Symbiodinium spp. symbiont. In preferred embodiments, the host is Pseudopterogorgia, preferably, P. elisabethae. As disclosed, preferred pseudopterosin compds. and pseudopterosin compns. are of non-animal origin, substantially free of animal impurities, or both. Treatment methods using the pseudopterosin compds. and compns. are also disclosed.

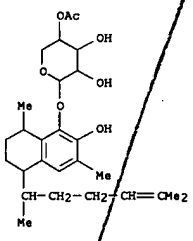
IT **111397-51-4P**, Seco-Pseudopterosin B **111466-65-0P**, Seco-Pseudopterosin A **111466-66-1P**, Seco-Pseudopterosin C **111466-67-2P**, Seco-Pseudopterosin D **433717-50-1P**, Seco-Pseudopterosin E
RL: NPO (Natural product occurrence); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(pseudopterosin compds. of Symbiodinium strains isolated from Pseudopterogorgia elisabethae)

RN 111397-51-4 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 2-acetate (9CI) (CA INDEX NAME)

L19 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



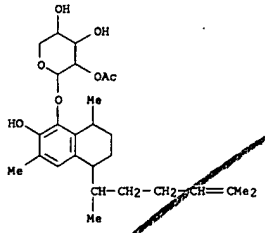
RN 111466-67-2 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate (9CI) (CA INDEX NAME)



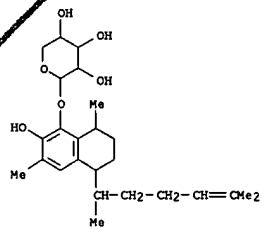
RN 433717-50-1 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)

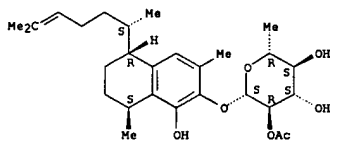


RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)



RN 111466-66-1 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate (9CI) (CA INDEX NAME)

L19 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



L19 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:522625 CAPLUS
DOCUMENT NUMBER: 137:98953
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

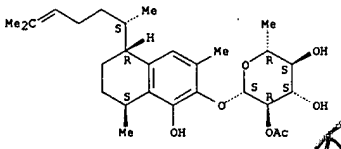
PRIORITY APPLN. INFO.: US 2000-235160P P 20000922
OTHER SOURCE(S): MARPAT 137:98953

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

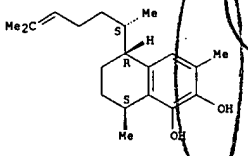
IT **433717-50-1**, SecoPseudopterosin E **433717-53-4**, SecoPseudopterosin F **433717-55-6**, SecoPseudopterosin G
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)

RN 433717-50-1 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

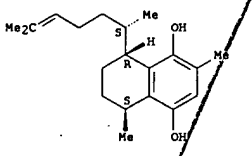


L19 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



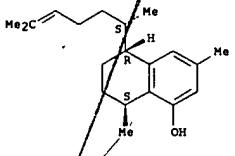
RN 433300-39-1 CAPLUS
CN 1,4-Naphthalenediol, 8-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2,5-dimethyl-, (5S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433300-41-5 CAPLUS
CN 1-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



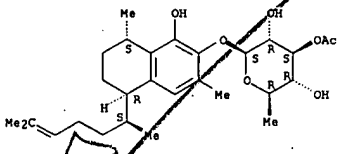
RN 433331-01-2 CAPLUS
CN 2-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)

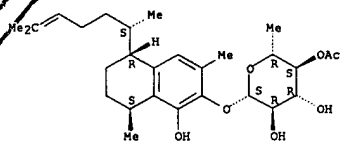
RN 433717-53-4 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 3-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433717-55-6 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 4-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

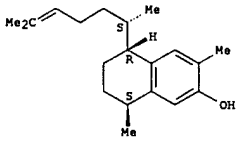


IT **199439-75-3** **433300-39-1** **433300-41-5**, Elisabethanol **433331-01-2** **441019-55-2** **441019-56-3** **441019-57-4**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)

RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

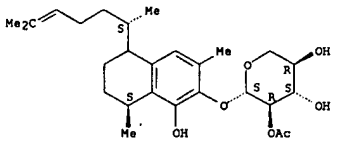
Absolute stereochemistry.

L19 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



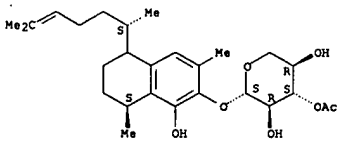
RN 441019-55-2 CAPLUS
CN .beta.-D-Xylopyranoside, (8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 441019-56-3 CAPLUS
CN .beta.-D-Xylopyranoside, (8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl, 3-acetate (9CI) (CA INDEX NAME)

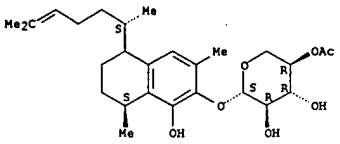
Absolute stereochemistry.



RN 441019-57-4 CAPLUS
CN .beta.-D-Xylopyranoside, (8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl, 4-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



L19 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:428919 CAPLUS
DOCUMENT NUMBER: 137:15779
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002041521	A5	20020611	AU 2002-41521	20011127
PRIORITY APPLN. INFO.:			US 2000-253160P	P 20001128
			WO 2001-US44334	W 20011127

OTHER SOURCE(S): MARPAT 137:15779

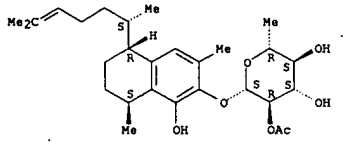
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

IT **433717-50-1P**, Secopseudopterosin E **433717-53-4P**, Secopseudopterosin F **433717-55-6P**, Secopseudopterosin G
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)

RN 433717-50-1 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 2-acetate (9CI) (CA INDEX NAME)

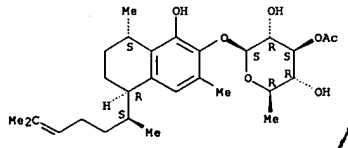
Absolute stereochemistry.

L19 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



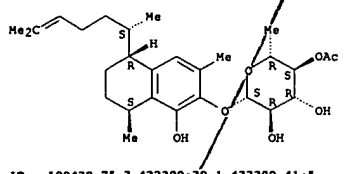
RN 433717-53-4 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 3-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433717-55-6 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 4-acetate (9CI) (CA INDEX NAME)

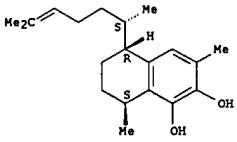
Absolute stereochemistry.



IT **199439-75-3 433300-39-1 433300-41-5 433331-01-2**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)

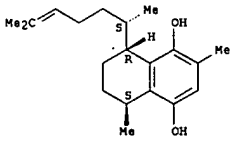
RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

L19 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)
Absolute stereochemistry.



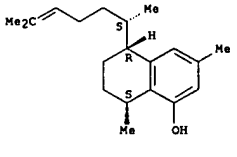
RN 433300-39-1 CAPLUS
CN 1,4-Naphthalenediol, 8-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2,5-dimethyl-, (5S,8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433300-41-5 CAPLUS
CN 1-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

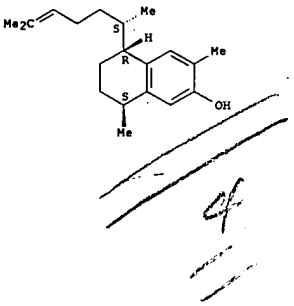
Absolute stereochemistry.



RN 433331-01-2 CAPLUS
CN 2-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L19 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



L19 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2003 ACS

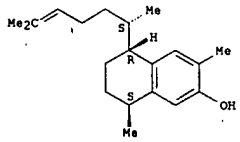
ACCESSION NUMBER: 2000:808258 CAPLUS
DOCUMENT NUMBER: 134:98166
TITLE: Serrulatane diterpenes with antimycobacterial activity isolated from the West Indian sea whip Pseudopterogorgia elisabethae
AUTHOR(S): Rodriguez, Abimael D.; Ramirez, Catherine
CORPORATE SOURCE: Department of Chemistry, University of Puerto Rico, San Juan, 00931-3346, P. R.
SOURCE: Journal of Natural Products (2001), 64(1), 100-102
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Two new antimycobacterial serrulatane diterpenes, erogorgiaene (I) and 7-hydroxyerogorgiaene (II), and a novel C40 bisditerpene (V), have been isolated from the West Indian gorgonian octocoral Pseudopterogorgia elisabethae. The structures of compds. I-III were detd. by spectral (1D and 2D NMR, IR, UV, and HREIMS) anal.

IT **318513-14-3P**, 7-Hydroxyerogorgiaene
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(serrulatane diterpenes with antimycobacterial activity isolated from sea whip Pseudopterogorgia elisabethae)

RN 318513-14-3 CAPLUS
CN 2-Naphthalenol, 5-[(1R)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.
Currently available stereo shown.

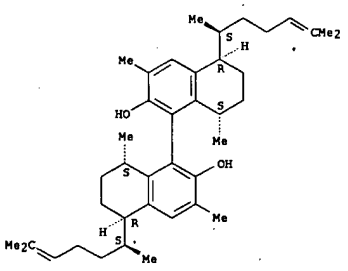


IT **318513-15-4P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(serrulatane diterpenes with antimycobacterial activity isolated from sea whip Pseudopterogorgia elisabethae)

RN 318513-15-4 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 5,5'-bis[(1R)-1,5-dimethyl-4-hexenyl]-5,5',6,6',7,7',8,8'-octahydro-3,3',8,8'-tetramethyl-, (5S,5'S,8R,8'R)-rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

L19 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)
Currently available stereo shown.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2003 ACS

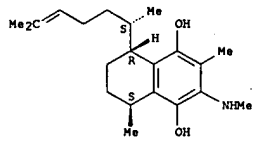
ACCESSION NUMBER: 2000:498626 CAPLUS
DOCUMENT NUMBER: 133:235399
TITLE: Elisabethamine: a new diterpene alkaloid from Pseudopterogorgia elisabethae
AUTHOR(S): Ata, A.; Kerr, R. G.
CORPORATE SOURCE: Center for Molecular Biology and Biotechnology, Department of Chemistry and Biochemistry, Florida Atlantic University, Boca Raton, FL, 33431, USA
SOURCE: Tetrahedron Letters (2000), 41(31), 5821-5825
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Detailed chem. studies of the methanolic ext. of Pseudopterogorgia elisabethae, collected from the Florida Keys, have resulted in the isolation of elisabethamine (I), a new diterpene alkaloid. Its structure was established with the aid of extensive spectroscopic studies. Compd. I exhibited cytotoxicity against lung and prostate cancer cell lines as detd. by an MTT assay.

IT **294202-41-8P**, Elisabethamine
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(cytotoxic diterpene alkaloid from Pseudopterogorgia elisabethae)

RN 294202-41-8 CAPLUS
CN 1,4-Naphthalenediol, 5-[(1R)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-2-(methylamino)-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

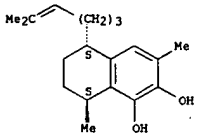
Rotation (+). Absolute stereochemistry unknown.
Currently available stereo shown.



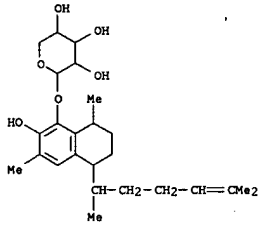
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:430405 CAPLUS
DOCUMENT NUMBER: 127:81637
TITLE: Chiral .eta.6-arene-Cr(CO)3 complexes in organic synthesis: a short and highly selective synthesis of the 18-nor-seco-pseudopterosin aglycon
AUTHOR(S): Majdalani, Andre; Schmalz, Hans-Gunther
CORPORATE SOURCE: Inst. Organische Chemie, Technischen Univ., Berlin, D-10623, Germany
SOURCE: Tetrahedron Letters (1997), 38(26), 4545-4548
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:81637
AB The chiral synthetic building block 5,6-dimethoxy-1-tetralone-Cr(CO)3 (I; >99% e.e.) was converted in only nine steps and with high regio- and diastereocontrol into the 18-nor-seco-pseudopterosin aglycon II (50% overall yield). The synthesis is centrally based on the specific reactivity of the arene-Cr(CO)3 substructure, esp. on the stabilization of neg. charge in benzylic position. The trans-configuration of the two benzylic substituents is secured by diastereoselective protonation of an anionic intermediate generated by conjugate addn. of 4-methyl-3-pentenyl-lithium to a complex prepd. from I via Peterson olefination, ortho-silylation and benzylic deprotonation/methylation.
IT **191791-96-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 18-norsecopseudopterosin aglycon)
RN 191791-96-5 CAPLUS
CN 1,2-Naphthalenediol, 5,6,7,8-tetrahydro-3,8-dimethyl-5-(5-methyl-4-hexenyl)-, (5S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

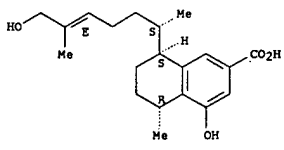


L19 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1993:124808 CAPLUS
DOCUMENT NUMBER: 118:124808
TITLE: Selective reduction of serrulatenol as a route to seco-pseudopterosin analogs
AUTHOR(S): Cowin, Linda M.; Massy-Westropp, Ralph A.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, Australia
SOURCE: Journal of Natural Products (1992), 55(12), 1790-4
CODEN: JNPRDF; ISSN: 0163-3864
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Deoxygenation of serrulatenol (I; R = H) at C(13) and C(18) gave 5,8-dimethoxyserrulatane II (R = H). Thus catalytic hydrogenation of Me ester I (R = Me) and metal/NH3 cleavage of the allylic carbon-oxygen bond was followed by deoxygenation at C(18) via the Bu3Sn redn. of II (R = iodo).
IT **145842-76-8D**, analogs
RL: RCT (Reactant); RACT (Reactant or reagent)
(selective redn. of serrulatenol as a route to)
RN 145842-76-8 CAPLUS
CN .beta.-D-Arabinopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

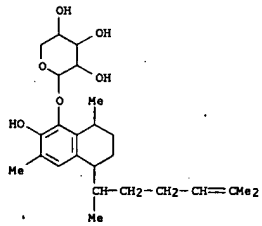


L19 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:486783 CAPLUS
DOCUMENT NUMBER: 117:86783
TITLE: A tricyclic diterpene from Eremophila serrulata
AUTHOR(S): Ghisalberti, E. L.
CORPORATE SOURCE: Dep. Chem., Univ. West. Australia, Nedlands, 6009, Australia
SOURCE: Phytochemistry (1992), 31(6), 2168-9
CODEN: PYTCAS; ISSN: 0031-9422
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new tricyclic diterpene acid (I) has been isolated from Eremophila serrulata. The structure has been deduced from spectroscopic anal. and has been shown to contain the 3-epi-pseudopterosin skeleton.
IT **65003-68-1**
RL: BIOL (Biological study)
(from Eremophila serrulata)
RN 65003-68-1 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5R-[5.alpha.,8.beta.(1S*,4E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



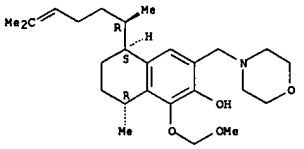
L19 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:492640 CAPLUS
DOCUMENT NUMBER: 115:92640
TITLE: Controlling benzylic functionality and stereochemistry. 1. Synthesis of the secopseudopterosin aglycon
AUTHOR(S): McCombie, Stuart W.; Cox, Brian; Lin, Sue Ing; Ganguly, Ashit K.; McPhail, Andrew T.
CORPORATE SOURCE: Schering-Plough Corp., Bloomfield, NJ, 07003, USA
SOURCE: Tetrahedron Letters (1991), 32(19), 2083-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:92640
AB Directed, homogeneous hydrogenation of 1-(1-hydroxymethylethyl)-5-methoxy-3,4-dihydronaphthalene (I), followed by protection and selective benzylic oxidn. gave the 1-oxo-(4R,11R) compd. II. After addn. of MeCeCl2, the natural C(1) stereochem. was established by intramol. hydride delivery from the di-t-butylsilyl ether III. Final elaboration of the sidechain and the aryl ring substituents gave the secopseudopterosin aglycon ether IV.
IT **111466-65-0P**, Secopseudopterosin A
RL: PREP (Preparation)
(aglycon of, total synthesis of)
RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)



IT **135323-53-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. Mannich reaction of)
RN 135323-53-4 CAPLUS
CN 2-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-1-(methoxymethoxy)-8-methyl-3-(4-morpholinylmethyl)-, [5.alpha.(S*),8.beta.]- (9CI) (CA INDEX NAME)

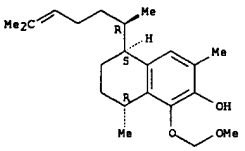
Relative stereochemistry.

L19 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



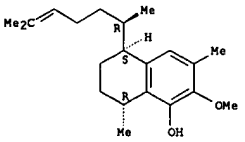
IT **135323-55-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and O-methylation of)
RN 135323-55-6 CAPLUS
CN 2-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-1-(methoxymethoxy)-3,8-dimethyl-, [5.alpha.(S*),8.beta.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



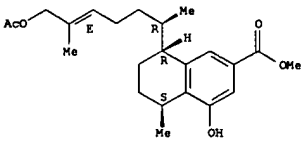
IT **135414-41-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of)
RN 135414-41-4 CAPLUS
CN 1-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, [5.alpha.(S*),8.beta.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L19 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:471930 CAPLUS
DOCUMENT NUMBER: 115:71930
TITLE: (.eta.6-Arene)chromium complexes in organic synthesis: synthesis of (.+-.)-dihydroxyserrulatic acid
AUTHOR(S): Uemura, Motokazu; Nishimura, Hikaru; Minami, Tatsuya; Hayashi, Yuji
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Journal of the American Chemical Society (1991), 113(14), 5402-10
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The title compd. I was prepd. via (.eta.6-arene)chromium complexes and involved 3 key steps: nucleophilic addn. of a dithianyl group at the meta position to an electron-donating methoxy group, trans arrangement of two benzylic substituents at C-1 and C-4 positions, and stereocontrol between C-4 and C-11 positions (exocyclic), in high regio- and stereoselectivities.
IT **130216-23-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 130216-23-8 CAPLUS
CN 2-Naphthalenecarboxylic acid, 8-[6-(acetyloxy)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-, methyl ester, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

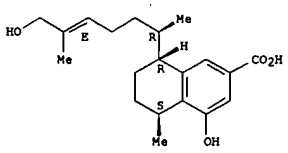


IT **130274-07-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, via arenechromium complexes)
RN 130274-07-6 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

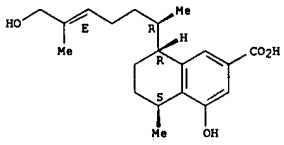
L19 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)

L19 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



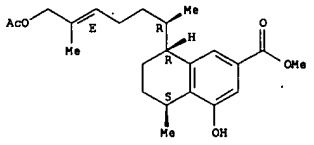
L19 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:82181 CAPLUS
DOCUMENT NUMBER: 114:82181
TITLE: Synthesis of (.+-.)-dihydroxyserrulatic acid via (arene)chromium complexes
AUTHOR(S): Uemura, M.; Nishimura, H.; Hayashi, Y.
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, Japan
SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1990), 32, 403-10
CODEN: TYKYDS
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB A symposium report with 13 refs. on a highly selective synthesis of (.+-.)-dihydroxyserrulatic acid (I) by utilizing some characteristic properties of (arene)chromium complexes.
IT **130274-07-6P**, (.+-.)-Dihydroxyserrulatic acid
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of, via arenechromium complexes)
RN 130274-07-6 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



L19 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:612369 CAPLUS
DOCUMENT NUMBER: 113:212369
TITLE: Synthesis of (.+-.)-dihydroxyserrulatic acid via (arene)chromium complexes
AUTHOR(S): Uemura, Motokazu; Nishimura, Hikaru; Hayashi, Yuji
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Tetrahedron Letters (1990), 31(16), 2319-22
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:212369
AB The title compd. I was synthesized with high selectivity by utilizing some characteristic properties of (arene)chromium complexes.
IT **130216-23-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and basic hydrolysis of)
RN 130216-23-8 CAPLUS
CN 2-Naphthalenecarboxylic acid, 8-[6-(acetyloxy)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-, methyl ester, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

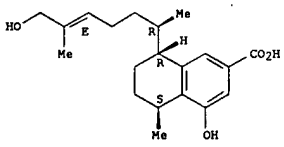
Relative stereochemistry.
Double bond geometry as shown.



IT **130274-07-6P**, (.+-.)-Dihydroxyserrulatic acid
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(stereospecific total synthesis of)
RN 130274-07-6 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

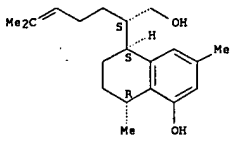
Relative stereochemistry.
Double bond geometry as shown.

L19 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS (Continued)



L19 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:455809 CAPLUS
DOCUMENT NUMBER: 113:55809
TITLE: Diterpenes from Eremophila species
AUTHOR(S): Ghisalberti, Emilio L.; Jefferies, Phillip R.; Hieu Thi Ngoc Vu
CORPORATE SOURCE: Dep. Org. Chem., Univ. West. Australia, Nedlands, 6009, Australia
SOURCE: Phytochemistry (1990), 29(1), 316-18
CODEN: PYTCAS; ISSN: 0031-9422
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Three new diterpenes were isolated from E. macmillaniana, E. falcata, and E. flaccida. In contrast to other Eremophila species, the leaf resin of E. flaccida is composed of flavanones and the sesquiterpene .beta.-eudesmol.
IT **128308-94-1**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Eremophila flaccida)
RN 128308-94-1 CAPLUS
CN 1-Naphthaleneethanol, 1,2,3,4-tetrahydro-5-hydroxy-4,7-dimethyl-.beta.-(4-methyl-3-pentenyl)-, [1S-[1.alpha.(R*),4.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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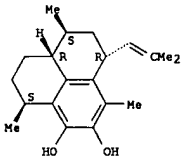
L11 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:62768 CAPLUS
DOCUMENT NUMBER: 136:247712
TITLE: Enantiospecific syntheses of pseudopterosin aglycones. Part 2. Synthesis of pseudopterosin K-L aglycone and pseudopterosin A-F aglycone via a B.fwdarw.BA.fwdarw.BAC annulation strategy
AUTHOR(S): Kocienski, Philip J.; Pontiroli, Alessandro; Qun, Liu
CORPORATE SOURCE: Department of Chemistry, Leeds University, Leeds, LS2 9JT, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1 (2001), (19), 2356-2366
CODEN: JCSPCE; ISSN: 1472-7781
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:247712
AB The enantiomeric aglycons (I and II) of pseudopterosins K-L and A-F are synthesized from (-)- and (+)-isopulegol resp. Key features are (a) the construction of the C3 stereogenic center by a directed epoxidn.-redn. sequence (K-L); (b) the creation of the C3 stereogenic center by a Pfaltz asym. conjugate redn. (A-F); (c) benzannulation of a cyclic ketone starting with an .alpha.-oxoketene-S,S-acetal to give a tetrahydronaphthol ether; and (d) a diastereoselective intramol. electrophilic arom. substitution using an allylic sulfone as the electrophilic trigger to complete the hexahydro-1H-phenalene core. An X-ray structure of compd. III was detd.
IT **106671-54-9P**, Pseudopterosin A-F aglycon **404367-00-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(enantiospecific synthesis of pseudopterosin K-L aglycon and pseudopterosin A-F aglycon via annulation strategy)
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

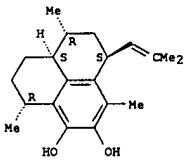
Absolute stereochemistry. Rotation (-).



RN 404367-00-6 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3R,7S,9R,9aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

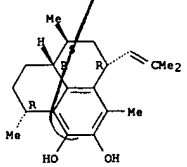
L11 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:62767 CAPLUS
DOCUMENT NUMBER: 136:310045
TITLE: Enantiospecific syntheses of pseudopterosin aglycones. Part 1. Synthesis of the putative aglycone of pseudopterosin G-J via an A.fwdarw.AB.fwdarw.ABC annulation strategy
AUTHOR(S): Chow, Robert; Kocienski, Philip J.; Kuhl, Alexander; LeBrazidec, Jean-Yves; Muir, Kenneth; Fish, Paul
CORPORATE SOURCE: Department of Chemistry, Leeds University, Leeds, LS2 9JT, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1 (2001), (19), 2344-2355
CODEN: JCSPCE; ISSN: 1472-7781
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:310045
AB The putative aglycon I of pseudopterosin G-J and its enantiomer were synthesized enantiospecifically from 2,3-dimethoxytoluene and .eta.3-allyl cationic complexes of molybdenum and iron resp. The A.fwdarw.AB.fwdarw.ABC annulation strategy entailed the use of allyl cations or their equiv. for the creation of the three benzylic stereogenic centers. The x-ray structure of tetrahydronaphthalene II was detd.
IT **406672-85-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(enantiospecific synthesis of the putative aglycon of pseudopterosin G-J via an annulation strategy)
RN 406672-85-3 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3R,7R,9S,9aR)- (9CI) (CA INDEX NAME)

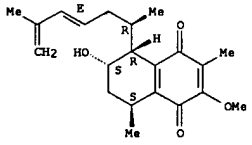
Absolute stereochemistry.



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:11433 CAPLUS
DOCUMENT NUMBER: 136:279574
TITLE: Total synthesis of colombiasin A and determination of its absolute configuration
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Chemistry--A European Journal (2001), 7(24), 5359-5371
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The total synthesis of the recently reported marine natural product colombiasin A (I) and detn. of its abs. configuration are reported. Two Diels - Alder cycloaddns. and a palladium-catalyzed rearrangement are employed as key reactions to construct the tetracyclic framework of the target mol. The enantioselective synthesis of colombiasin A utilizes Mikami's [(S)-BINOL-TiCl2] catalyst to asym. introduce the first chiral center during the initial Diels - Alder reaction and, in conjunction with X-ray crystallog. anal. of a bromine contg. deriv., led to the assignment of the abs. configuration of the natural product.
IT **362650-95-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A and detn. of its abs. configuration)
RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

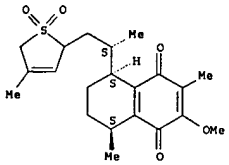
Relative stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

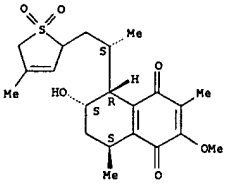
L11 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:831849 CAPLUS
DOCUMENT NUMBER: 136:151319
TITLE: Towards colombiasin A
AUTHOR(S): Harrowven, David C.; Tyte, Melloney J.
CORPORATE SOURCE: Department of Chemistry, The University of Southampton, Southampton, SO17 1BJ, UK
SOURCE: Tetrahedron Letters (2001), 42(49), 8709-8711
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A synthetic route to an diastereomerically unnatural analog I of colombiasin A (II) is described. Key features are an arene alkylation with a .gamma.-methylene-.gamma.-butyrolactone and an intramol. Diels-Alder cycloaddn.
IT **394739-50-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthetic studies directed towards colombiasin A)
RN 394739-50-5 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, (5R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

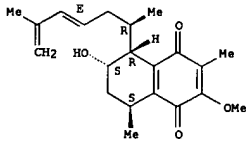
L11 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:516801 CAPLUS
DOCUMENT NUMBER: 135:273093
TITLE: Total synthesis of Colombiasin A
AUTHOR(S): Nicolaou, K. C.; Vassilikogiannakis, Georgios; Magerlein, Wolfgang; Kranich, Remo
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Angewandte Chemie, International Edition (2001), 40(13), 2482-2486
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:273093
AB The authors report the total synthesis of racemic colombiasin A (I) by a strategy which also delivered its C7 epimer as well as several other analogs.
IT **362650-95-1P 362651-05-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of colombiasin A)
RN 362650-95-1 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R,3E)-1,5-dimethyl-3,5-hexadienyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5R,6S,8S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

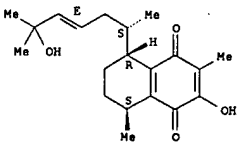


RN 362651-05-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1R)-2-(2,5-dihydro-4-methyl-1,1-dioxido-2-thienyl)-1-methylethyl]-5,6,7,8-tetrahydro-6-hydroxy-2-methoxy-3,8-dimethyl-, (5S,6R,8R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L11 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:895538 CAPLUS
DOCUMENT NUMBER: 134:160401
TITLE: Structurally diverse terpenoids from the sea whip Pseudopterogorgia elisabethae (Bayer)
AUTHOR(S): Rodriguez, A. D.; Shi, Y.-P.
CORPORATE SOURCE: Department of Chemistry, University of Puerto Rico, San Juan, 00931-3346, P. R.
SOURCE: Tetrahedron (2000), 56(46), 9015-9023
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The extn. of a specimen of Pseudopterogorgia elisabethae from Colombia afforded three new diterpenes (I-III), a norditerpene (IV), and a tetrisnorditerpene (V). Metabolites IV and V contain unusual carbon skeletons that are previously undescribed and therefore constitute new classes of C19 and C16 rearranged terpenes, resp. Full details of the isolation and structure elucidation of I-V, which were established by spectroscopic methods including comprehensive 2D NMR measurements, are provided herein.
IT **325691-48-3P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(terpenoids from sea whip Pseudopterogorgia elisabethae)
RN 325691-48-3 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-[(1R,3E)-5-hydroxy-1,5-dimethyl-3-hexenyl]-3,8-dimethyl-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

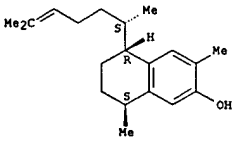
Rotation (+). Absolute stereochemistry unknown.
Double bond geometry as shown.
Currently available stereo shown.



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:808258 CAPLUS
DOCUMENT NUMBER: 134:98166
TITLE: Serrulatane diterpenes with antimycobacterial activity isolated from the West Indian sea whip Pseudopterogorgia elisabethae
AUTHOR(S): Rodriguez, Abimael D.; Ramirez, Catherine
CORPORATE SOURCE: Department of Chemistry, University of Puerto Rico, San Juan, 00931-3346, P. R.
SOURCE: Journal of Natural Products (2001), 64(1), 100-102
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two new antimycobacterial serrulatane diterpenes, erogorgiaene (I) and 7-hydroxyerogorgiaene (II), and a novel C40 bisditerpene (V), have been isolated from the West Indian gorgonian octocoral Pseudopterogorgia elisabethae. The structures of compds. I-III were detd. by spectral (1D and 2D NMR, IR, UV, and HREIMS) anal.
IT **318513-14-3P**, 7-Hydroxyerogorgiaene
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(serrulatane diterpenes with antimycobacterial activity isolated from sea whip Pseudopterogorgia elisabethae)
RN 318513-14-3 CAPLUS
CN 2-Naphthalenol, 5-[(1R)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

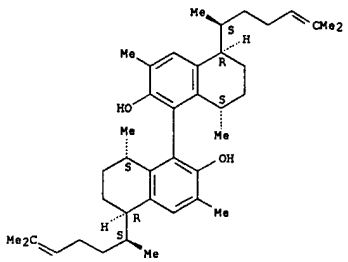
Rotation (+). Absolute stereochemistry unknown.
Currently available stereo shown.



IT **318513-15-4P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(serrulatane diterpenes with antimycobacterial activity isolated from sea whip Pseudopterogorgia elisabethae)
RN 318513-15-4 CAPLUS
CN [1,1'-Binaphthalene]-2,2'-diol, 5,5'-bis[(1R)-1,5-dimethyl-4-hexenyl]-5,5',6,6',7,7',8,8'-octahydro-3,3',8,8'-tetramethyl-, (5S,5'S,8R,8'R)-rel-(+)- (9CI) (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.

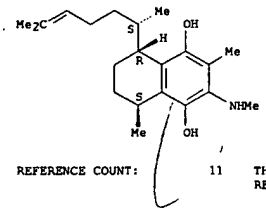
L11 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
Currently available stereo shown.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:498626 CAPLUS
DOCUMENT NUMBER: 133:235399
TITLE: Elisabethamine: a new diterpene alkaloid from Pseudopterogorgia elisabethae
AUTHOR(S): Ata, A.; Kerr, R. G.
CORPORATE SOURCE: Center for Molecular Biology and Biotechnology, Department of Chemistry and Biochemistry, Florida Atlantic University, Boca Raton, FL, 33431, USA
SOURCE: Tetrahedron Letters (2000), 41(31), 5821-5825
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Detailed chem. studies of the methanolic ext. of Pseudopterogorgia elisabethae, collected from the Florida Keys, have resulted in the isolation of elisabethamine (I), a new diterpene alkaloid. Its structure was established with the aid of extensive spectroscopic studies. Compd. I exhibited cytotoxicity against lung and prostate cancer cell lines as detd. by an MTT assay.
IT **294202-41-8P**, Elisabethamine
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(cytotoxic diterpene alkaloid from Pseudopterogorgia elisabethae)
RN 294202-41-8 CAPLUS
CN 1,4-Naphthalenediol, 5-[(1R)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-2-(methylamino)-, (5S,8R)-rel-(+)- (9CI) (CA INDEX NAME)

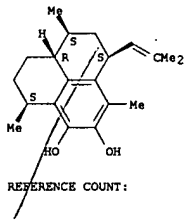
Rotation (+). Absolute stereochemistry unknown.
Currently available stereo shown.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:442946 CAPLUS
DOCUMENT NUMBER: 133:208003
TITLE: Syntheses and Stereochemical Revision of Pseudopterosin G-J Aglycon and Helioporin E
AUTHOR(S): Lazerwith, Scott E.; Johnson, Ted W.; Corey, E. J.
CORPORATE SOURCE: Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA
SOURCE: Organic Letters (2000), 2(15), 2389-2392
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:208003
AB Revised structures are proposed for pseudopterosin G-J aglycon (I) and helioporin E (II), based on their synthesis starting from the hexadienyltetrahydronaphthalene III.
IT **290810-69-4P**, Pseudopterosin G aglycon
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(syntheses and stereochem. revision of pseudopterosin G-J aglycon and helioporin E)
RN 290810-69-4 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7S,9S,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

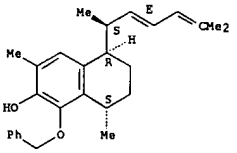
L11 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:736134 CAPLUS
DOCUMENT NUMBER: 130:95692
TITLE: A Direct and Efficient Stereocontrolled Synthetic Route to the Pseudopterosins, Potent Marine Antiinflammatory Agents
AUTHOR(S): Corey, E. J.; Lazerwith, Scott E.
CORPORATE SOURCE: Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA
SOURCE: Journal of the American Chemical Society (1998), 120(49), 12777-12782
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:95692

AB Described herein is a new synthetic route to pseudopterosin aglycon (I), a key intermediate for the synthesis of a group of antiinflammatory natural products including pseudopterosin A and E. The pathway of synthesis starts with the abundant and inexpensive (S)-(-)-limonene and its long-known cyclic hydroboration product (II) and leads to the chiral hydroxy ketone (III). Conversion of III to (IV) followed by a novel arom. annulation produced (V) which underwent a highly diastereoselective cyclization to afford the protected pseudopterosin aglycon (VI). The naturally occurring pseudopterosins A and E are readily available from this key intermediate.

IT **219498-24-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereocontrolled synthesis of pseudopterosin aglycon)

RN 219498-24-5 CAPLUS
CN 2-Naphthalenol, 5-[(1S,2E)-1,5-dimethyl-2,4-hexadienyl]-5,6,7,8-tetrahydro-3,8-dimethyl-1-(phenylmethoxy)-, (5R,8S)- (9CI) (CA INDEX NAME)

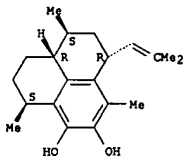
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



IT **106671-54-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereocontrolled synthesis of pseudopterosin aglycon)

RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

L11 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

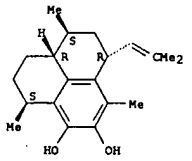
L11 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:159578 CAPLUS
DOCUMENT NUMBER: 128:230537
TITLE: Preparation of helioporin D from the seco-pseudopterosin aglycon: revision of the stereostructure of helioporin D
AUTHOR(S): Geller, Thomas; Jakupovic, Jasmin; Schmalz, Hans-Gunther
CORPORATE SOURCE: Institut fur Organische Chemie der Technischen Universitat, Berlin, D-10623, Germany
SOURCE: Tetrahedron Letters (1998), 39(12), 1541-1544
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A revised stereostructure for helioporin D (I) was unequivocally established by its synthesis from the seco-pseudopterosin aglycon and by careful anal. of NMR data. As the corresponding benzodioxole derived from the pseudopterosin A aglycon was not identical with helioporin E, it was proven that helioporin D and E do not belong to the same stereochem. series.

IT **106671-54-9 199439-75-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and revision of stereostructure of helioporin D)

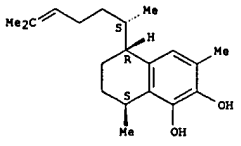
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

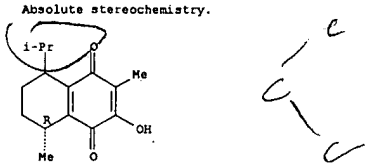
Absolute stereochemistry.



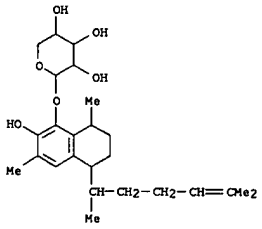
L11 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:108327 CAPLUS
DOCUMENT NUMBER: 128:192798
TITLE: Formation of mansonones from naturally occurring para-benzoquinones
AUTHOR(S): Garcia, Esther; Mendoza, Virgilio; Agustin Guzman, J.
CORPORATE SOURCE: Instituto Investigaciones Quimico-Biologicas, Universidad Michoacana San Nicolas de Hidalgo, Morelia, 58030, Mex.
SOURCE: Natural Product Letters (1997), 11(1), 67-72
CODEN: NPLEEF; ISSN: 1057-5634
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Cyclization of perezone and hydroxyperezone with HI, followed by Jones oxidn., converted them into isomansonone A and mansonone A, B, and C.
IT **203174-32-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of mansonones from perezone)
RN 203174-32-7 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)-, (8R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



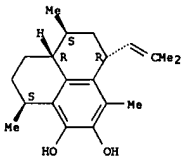
L11 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:749996 CAPLUS
DOCUMENT NUMBER: 128:34906
TITLE: Enantioselective synthesis of the aglycons of pseudopterosin A and seco-pseudopterosin A via a common synthetic intermediate
AUTHOR(S): Majdalani, Andre; Schmalz, Hans Guenther
CORPORATE SOURCE: Institut Organische Chemie, Technische Universitaet Berlin, Berlin, D-10623, Germany
SOURCE: Synlett (1997), (11), 1303-1305
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A synthesis proceeding in 12 steps from the chiral building block I to the key intermediate II (R = SO2Ph) from which both the title compds. are easily accessible in 2 steps is reported.
IT **111466-65-0P**, Secopseudopterosin A
RL: PNU (Preparation, unclassified); PREP (Preparation)
(stereoselective synthesis of pseudopterosine and seco-pseudopterosine aglycons)
RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)



IT **106671-54-9P 199439-75-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of pseudopterosine and seco-pseudopterosine aglycons)
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

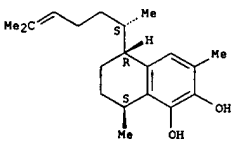
Absolute stereochemistry. Rotation (-).

L11 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



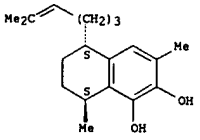
RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



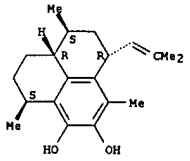
L11 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:430405 CAPLUS
DOCUMENT NUMBER: 127:81637
TITLE: Chiral .eta.6-arene-Cr(CO)3 complexes in organic synthesis: a short and highly selective synthesis of the 18-nor-seco-pseudopterosin aglycon
AUTHOR(S): Majdalani, Andre; Schmalz, Hans-Gunther
CORPORATE SOURCE: Inst. Organische Chemie, Technischen Univ., Berlin, D-10623, Germany
SOURCE: Tetrahedron Letters (1997), 38(26), 4545-4548
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:81637
AB The chiral synthetic building block 5,6-dimethoxy-1-tetralone-Cr(CO)3 (I; >99% e.e.) was converted in only nine steps and with high regio- and diastereocontrol into the 18-nor-seco-pseudopterosin aglycon II (50% overall yield). The synthesis is centrally based on the specific reactivity of the arene-Cr(CO)3 substructure, esp. on the stabilization of neg. charge in benzylic position. The trans-configuration of the two benzylic substituents is secured by diastereoselective protonation of an anionic intermediate generated by conjugate addn. of 4-methyl-3-pentenyl-lithium to a complex prepd. from I via Peterson olefination, ortho-silylation and benzylic deprotonation/methylation.
IT **191791-96-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 18-norsecopseudopterosin aglycon)
RN 191791-96-5 CAPLUS
CN 1,2-Naphthalenediol, 5,6,7,8-tetrahydro-3,8-dimethyl-5-(5-methyl-4-hexenyl)-, (5S-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

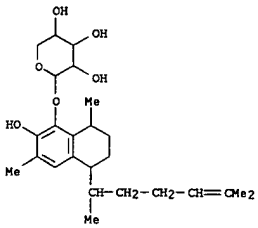


L11 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1995:1004572 CAPLUS
DOCUMENT NUMBER: 124:117629
TITLE: Total synthesis of pseudopterosin A and E aglycon
AUTHOR(S): Buszek, Keith R.; Bixby, Dale L.
CORPORATE SOURCE: Department Chemistry, Kansas State University, Manhattan, KS, 66506, USA
SOURCE: Tetrahedron Letters (1995), 36(50), 9129-32
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:117629
AB A total synthesis of the pseudopterosin A and E aglycon I has been achieved through a novel intramol. benzyne Diels-Alder cycloaddn. with a substituted cyclohexadiene.
IT **106671-54-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of pseudopterosin A and E aglycon)
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

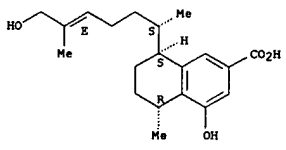


L11 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1993:124808 CAPLUS
DOCUMENT NUMBER: 118:124808
TITLE: Selective reduction of serrulatenol as a route to seco-pseudopterosin analogs
AUTHOR(S): Cowin, Linda M.; Massy-Westropp, Ralph A.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, Australia
SOURCE: Journal of Natural Products (1992), 55(12), 1790-4
CODEN: JNPRDF; ISSN: 0163-3864
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Deoxygenation of serrulatenol (I; R = H) at C(13) and C(18) gave 5,8-dimethoxyserrulatane II (R = H). Thus catalytic hydrogenation of Me ester I (R = Me) and metal/NH3 cleavage of the allylic carbon-oxygen bond was followed by deoxygenation at C(18) via the Bu3Sn redn. of II (R = iodo).
IT **145842-76-8D**, analogs
RL: RCT (Reactant); RACT (Reactant or reagent)
(selective redn. of serrulatenol as a route to)
RN 145842-76-8 CAPLUS
CN .beta.-D-Arabinopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)



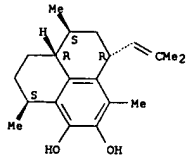
L11 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1992:486783 CAPLUS
DOCUMENT NUMBER: 117:86783
TITLE: A tricyclic diterpene from Eremophila serrulata
AUTHOR(S): Ghisalberti, E. L.
CORPORATE SOURCE: Dep. Chem., Univ. West. Australia, Nedlands, 6009, Australia
SOURCE: Phytochemistry (1992), 31(6), 2168-9
CODEN: PYTCAS; ISSN: 0031-9422
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new tricyclic diterpene acid (I) has been isolated from Eremophila serrulata. The structure has been deduced from spectroscopic anal. and has been shown to contain the 3-epi-pseudopterosin skeleton.
IT **65003-68-1**
RL: BIOL (Biological study)
(from Eremophila serrulata)
RN 65003-68-1 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5R-[5.alpha.,8.beta.(1S*,4E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

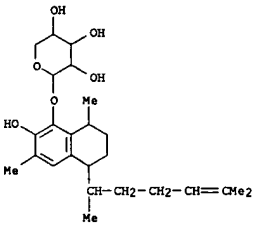


L11 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:514801 CAPLUS
DOCUMENT NUMBER: 115:114801
TITLE: Controlling benzylic functionality and stereochemistry. 2. Synthesis of the pseudopterosin aglycone
AUTHOR(S): McCombie, Stuart W.; Cox, Brian; Ganguly, Ashit K.
CORPORATE SOURCE: Schering-Plough Corp., Bloomfield, NJ, 07003, USA
SOURCE: Tetrahedron Letters (1991), 32(19), 2087-90
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:114801
AB Homologation, cyclization, and redn. converted the tetralin I to the hexahydrophenalenol II (R=H), which was methylated to afford II (R=Me) via alkoxide-directed metalation. The degree of stereoselectivity resulting from reactions of II (R=Me) and congeners with allylsilane-Lewis acid combinations was markedly dependent upon substitution patterns, whereas Et2AlCN-SnCl4 produced pseudoaxial nitriles. The trimethylnitrile III was elaborated to the pseudopterosin aglycon IV.
IT **135414-27-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of)
RN 135414-27-6 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3.alpha.,7.beta.,9.alpha.,9a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



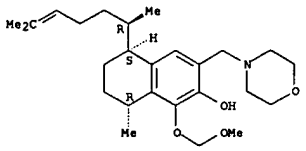
L11 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:492640 CAPLUS
DOCUMENT NUMBER: 115:92640
TITLE: Controlling benzylic functionality and stereochemistry. 1. Synthesis of the secopseudopterosin aglycon
AUTHOR(S): McCombie, Stuart W.; Cox, Brian; Lin, Sue Ing; Ganguly, Ashit K.; McPhail, Andrew T.
CORPORATE SOURCE: Schering-Plough Corp., Bloomfield, NJ, 07003, USA
SOURCE: Tetrahedron Letters (1991), 32(19), 2083-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:92640
AB Directed, homogeneous hydrogenation of 1-(1-hydroxymethylethyl)-5-methoxy-3,4-dihydronaphthalene (I), followed by protection and selective benzylic oxidn. gave the 1-oxo-(4R,11R) compd. II. After addn. of MeCeCl2, the natural C(1) stereochem. was established by intramol. hydride delivery from the di-t-butylsilyl ether III. Final elaboration of the sidechain and the aryl ring substituents gave the secopseudopterosin aglycon ether IV.
IT **111466-65-0P**, Secopseudopterosin A
RL: PREP (Preparation)
(aglycon of, total synthesis of)
RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)



IT **135323-53-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. Mannich reaction of)
RN 135323-53-4 CAPLUS
CN 2-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-1-(methoxymethoxy)-8-methyl-3-(4-morpholinylmethyl)-, [5.alpha.(S*),8.beta.]- (9CI) (CA INDEX NAME)

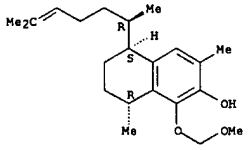
Relative stereochemistry.

L11 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



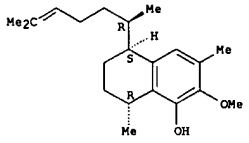
IT **135323-55-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and O-methylation of)
RN 135323-55-6 CAPLUS
CN 2-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-1-(methoxymethoxy)-3,8-dimethyl-, [5.alpha.(S*),8.beta.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **135414-41-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of)
RN 135414-41-4 CAPLUS
CN 1-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, [5.alpha.(S*),8.beta.]- (9CI) (CA INDEX NAME)

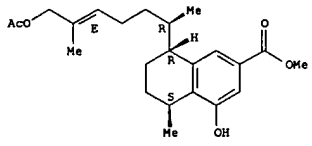
Relative stereochemistry.



L11 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L11 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:471930 CAPLUS
DOCUMENT NUMBER: 115:71930
TITLE: (.eta.6-Arene)chromium complexes in organic synthesis: synthesis of (.+-.)-dihydroxyserrulatic acid
AUTHOR(S): Uemura, Motokazu; Nishimura, Hikaru; Minami, Tatsuya; Hayashi, Yuji
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Journal of the American Chemical Society (1991), 113(14), 5402-10
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The title compd. I was prepd. via (.eta.6-arene)chromium complexes and involved 3 key steps: nucleophilic addn. of a dithianyl group at the meta position to an electron-donating methoxy group, trans arrangement of two benzylic substituents at C-1 and C-4 positions, and stereocontrol between C-4 and C-11 positions (exocyclic), in high regio- and stereoselectivities.
IT **130216-23-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 130216-23-8 CAPLUS
CN 2-Naphthalenecarboxylic acid, 8-[6-(acetyloxy)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-, methyl ester, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

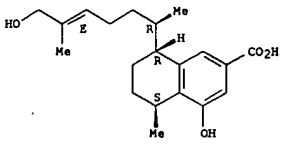
Relative stereochemistry.
Double bond geometry as shown.



IT **130274-07-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, via arenechromium complexes)
RN 130274-07-6 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

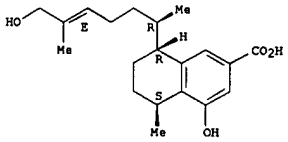
Relative stereochemistry.
Double bond geometry as shown.

L11 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



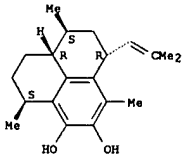
L11 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:82181 CAPLUS
DOCUMENT NUMBER: 114:82181
TITLE: Synthesis of (.+-.)-dihydroxyserrulatic acid via (arene)chromium complexes
AUTHOR(S): Uemura, M.; Nishimura, H.; Hayashi, Y.
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, Japan
SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1990), 32, 403-10
CODEN: TYKYDS
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB A symposium report with 13 refs. on a highly selective synthesis of (.+-.)-dihydroxyserrulatic acid (I) by utilizing some characteristic properties of (arene)chromium complexes.
IT **130274-07-6P**, (.+-.)-Dihydroxyserrulatic acid
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of, via arenechromium complexes)
RN 130274-07-6 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



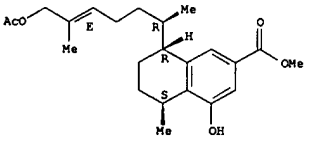
L11 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:631727 CAPLUS
DOCUMENT NUMBER: 113:231727
TITLE: Stereospecific synthesis of the aglycone of pseudopterosin E
AUTHOR(S): Ganguly, A. K.; McCombie, S. W.; Cox, B.; Lin, S.; McPhail, A. T.
CORPORATE SOURCE: Schering-Plough Corp., Bloomfield, NJ, 07003, USA
SOURCE: Pure and Applied Chemistry (1990), 62(7), 1289-91
CODEN: PACHAS; ISSN: 0033-4545
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A symposium contribution. Aglycon I of pseudopterosin E was synthesized from the tetralone II using several novel reactions to control stereoselectivity.
IT **106671-54-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, from methoxytetralone)
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



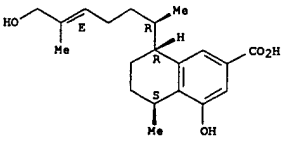
L11 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:612369 CAPLUS
DOCUMENT NUMBER: 113:212369
TITLE: Synthesis of (.+-.)-dihydroxyserrulatic acid via (arene)chromium complexes
AUTHOR(S): Uemura, Motokazu; Nishimura, Hikaru; Hayashi, Yuji
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Tetrahedron Letters (1990), 31(16), 2319-22
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:212369
AB The title compd. I was synthesized with high selectivity by utilizing some characteristic properties of (arene)chromium complexes.
IT **130216-23-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and basic hydrolysis of)
RN 130216-23-8 CAPLUS
CN 2-Naphthalenecarboxylic acid, 8-[6-(acetyloxy)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-, methyl ester, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



IT **130274-07-6P**, (.+-.)-Dihydroxyserrulatic acid
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(stereospecific total synthesis of)
RN 130274-07-6 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5.alpha.,8.beta.(1S*,4E)]- (9CI) (CA INDEX NAME)

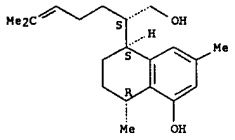
Relative stereochemistry.
Double bond geometry as shown.



L11 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L11 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:455809 CAPLUS
DOCUMENT NUMBER: 113:55809
TITLE: Diterpenes from Eremophila species
AUTHOR(S): Ghisalberti, Emilio L.; Jefferies, Phillip R.; Hieu Thi Ngoc Vu
CORPORATE SOURCE: Dep. Org. Chem., Univ. West. Australia, Nedlands, 6009, Australia
SOURCE: Phytochemistry (1990), 29(1), 316-18
CODEN: PYTCAS; ISSN: 0031-9422
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Three new diterpenes were isolated from E. macmillaniana, E. falcata, and E. flaccida. In contrast to other Eremophila species, the leaf resin of E. flaccida is composed of flavanones and the sesquiterpene .beta.-eudesmol.
IT **128308-94-1**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Eremophila flaccida)
RN 128308-94-1 CAPLUS
CN 1-Naphthaleneethanol, 1,2,3,4-tetrahydro-5-hydroxy-4,7-dimethyl-.beta.-(4-methyl-3-pentenyl)-, [1S-[1.alpha.(R*),4.beta.]]- (9CI) (CA INDEX NAME)

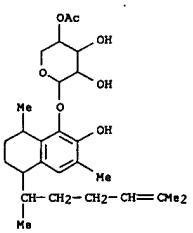
Absolute stereochemistry.



L11 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:48793 CAPLUS
DOCUMENT NUMBER: 112:48793
TITLE: Pseudopterosins and their synthetic derivatives as anticancer, antiinflammatory and analgesic drugs
INVENTOR(S): Jacobs, Robert S.; Fenical, William H.
PATENT ASSIGNEE(S): University of California, USA
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

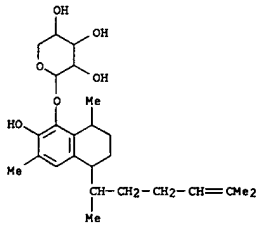
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8901334	A1	19890223	WO 1988-US2695	19880808
W: JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4849410	A	19890718	US 1987-85628	19870814
CA 1317591	A1	19930511	CA 1988-574076	19880808
PRIORITY APPLN. INFO.:			US 1987-85628	19870814
			US 1985-723214	19850415

OTHER SOURCE(S): MARPAT 112:48793
AB The title compds. I (R1-R4 = H, C1-6 acyl; R5 = H, Me, CH2OH; R6 = C1-10 hydrocarbyl) are antiinflammatory, anticancer and analgesic drugs. I (R1-R5 = H, R6 = 2-methyl-1-propenyl)(II) administered i.p. at 1-5 mg/kg, almost doubled the survival time of mice with P388 leukemia. II was extd. from Pseudopterogorgia with 10% MeOH in CHCl3, followed by solvent evapn., reextn. with CHCl3 and purifn. by silica gel chromatog.
IT **106665-01-4 106665-02-5 106665-03-6**
RL: BIOL (Biological study)
(anticancer and antiinflammatory and analgesic drug)
RN 106665-01-4 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

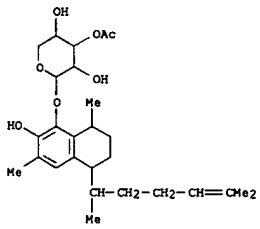


RN 106665-02-5 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L11 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

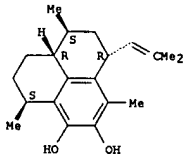


RN 106665-03-6 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

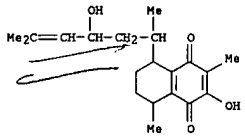


L11 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1989:439720 CAPLUS
DOCUMENT NUMBER: 111:39720
TITLE: Enantiospecific total synthesis of pseudopterosins A and E
AUTHOR(S): Corey, E. J.; Carpino, Philip
CORPORATE SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, 02138, USA
SOURCE: Journal of the American Chemical Society (1989), 111(14), 5472-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:39720
AB A total, enantiospecific synthesis of pseudopterosins A (I) and E (II) has been achieved starting from (+)-menthol via the known hydroxy oxime III. The chiral octalone IV, synthesized from III, was transformed into the tricyclic keto phenol V using a novel arom. annulation process involving 2 intermediates. V was ortho hydroxylated to the catechol deriv. which, after protection as the isopropylidene deriv., was elaborated to the pseudopterosin aglycon. A novel and effective .alpha.-L-fucosylation of the aglycon gave II. The aglycon was also converted selectively to the tosylate and thence to I using 2,3,4-triacetyl-.alpha.-D-xylopyranosyl bromide.
IT **106671-54-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, intermediate in total synthesis of pseudopterosins A and E)
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

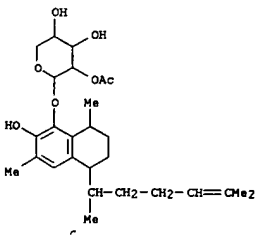
Absolute stereochemistry. Rotation (-).



L11 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1989:21335 CAPLUS
DOCUMENT NUMBER: 110:21335
TITLE: New marine diterpenoids, including a unique hydroperoxide, from a Caribbean gorgonian coral of the genus Pseudopterogorgia
AUTHOR(S): Harvis, Carl A.; Burch, Mark T.; Fenical, William
CORPORATE SOURCE: Inst. Mar. Resourc., Scripps Inst. Oceanogr., La Jolla, CA, 92093-0228, USA
SOURCE: Tetrahedron Letters (1988), 29(35), 4361-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:21335
AB 4 New diterpenoids (I-IV) related to the aglycon components of the recently described pseudopterosins and seco-pseudopterosins have been isolated from an undescribed Pseudopterogorgia species from the Caribbean Sea. The new compds., described on the basis of their NMR properties and chem. interconversions, appear to be related, illustrating some interesting rearrangements of a tertiary hydroperoxide in this series.
IT **118169-36-1**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of gorgonian coral)
RN 118169-36-1 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-5-(3-hydroxy-1,5-dimethyl-4-hexenyl)-3,8-dimethyl- (9CI) (CA INDEX NAME)

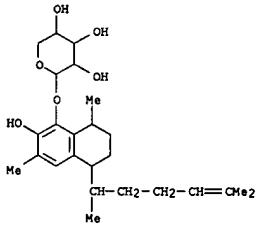


L11 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1987:633406 CAPLUS
DOCUMENT NUMBER: 107:233406
TITLE: The seco-pseudopterosins, new anti-inflammatory diterpene-glycosides from a Caribbean gorgonian octocoral of the genus Pseudopterogorgia
AUTHOR(S): Look, Sally A.; Fenical, William
CORPORATE SOURCE: Inst. Mar. Resour., Univ. California, San Diego, La Jolla, CA, 92093, USA
SOURCE: Tetrahedron (1987), 43(15), 3363-70
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new class of diterpene-pentosides, the seco-pseudopterosins A-D (I, II, III, and IV) were isolated from a Caribbean sea whip of the genus Pseudopterogorgia. The new compds. are arabinose glycosides possessing aglycons of the serrulatane class, the compds. in the series are monoacetate positional isomers, and they are related to the recently described pseudopterosins by bond cleavage at the C5 - C13 positions. The seco-pseudopterosins possess potent anti-inflammatory and analgesic activities equiv. to com. anti-inflammatory drugs. The structures of these new compds. are suggested on the basis of comprehensive spectral analyses and chem. transformations.
IT **111397-51-4 111466-65-0 111466-66-1**
111466-67-2
RL: BIOL (Biological study)
(of gorgonian octocoral, isolation and mol. structure and anti-inflammatory activity of)
RN 111397-51-4 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 2-acetate (9CI) (CA INDEX NAME)

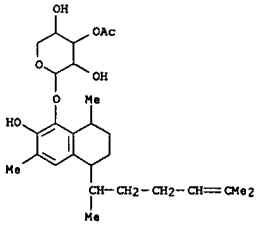


RN 111466-65-0 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl (9CI) (CA INDEX NAME)

L11 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

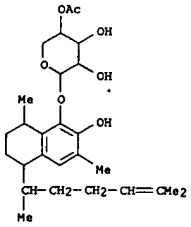


RN 111466-66-1 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate (9CI) (CA INDEX NAME)



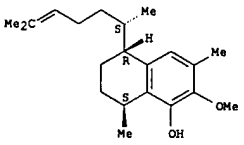
RN 111466-67-2 CAPLUS
CN .alpha.-Arabinopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate (9CI) (CA INDEX NAME)

L11 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



IT 111397-54-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and NMR of)
RN 111397-54-7 CAPLUS
CN 1-Naphthalenol, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-methoxy-3,8-dimethyl-, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L11 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1987:84986 CAPLUS
DOCUMENT NUMBER: 106:84986
TITLE: Pseudopterosin and its synthetic derivatives
INVENTOR(S): Jacobs, Robert S.; Fenical, William H.
PATENT ASSIGNEE(S): University of California, Berkeley, USA
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

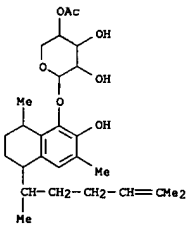
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 198689	A2	19861022	EP 1986-302711	19860411
EP 198689	A3	19870610		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4745104	A	19880517	US 1985-723214	19850415
CA 1288771	A1	19910910	CA 1986-505110	19860326
ZA 8602488	A	19861126	ZA 1986-2488	19860403
DK 8601626	A	19861016	DK 1986-1626	19860410
AU 8656065	A1	19861023	AU 1986-56065	19860414
ES 553952	A1	19871101	ES 1986-553952	19860414
JP 62036395	A2	19870217	JP 1986-85238	19860415
JP 2748001	B2	19980506		

PRIORITY APPLN. INFO.: US 1985-723214 19850415

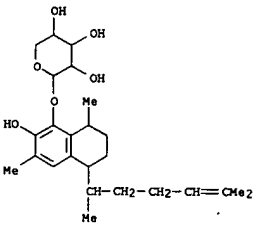
AB The title compds. I [R1-R4 = H, C1-6 acyl; R5 = H, HOCH2; R6 = (un)substituted hydrocarbonyl] were isolated from Caribbean gorgonians or prepd. and tested for analgesic and antiinflammatory activity. Thus, pseudopterosin A (R1-R5 = H, R6 = Me2C:CH) was acetylated with Ac2O in pyridine to give 79% I (R1-R4 = Ac, R5 = H, R6 = Me2C:CH) (II). In the phenylquinone writhing test in mice 25 mg II/kg s.c. reduced writhing 34%.

IT 106665-01-4 106665-02-5 106665-03-6
106671-55-0
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(analgesic and antiinflammatory activity of)
RN 106665-01-4 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L11 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

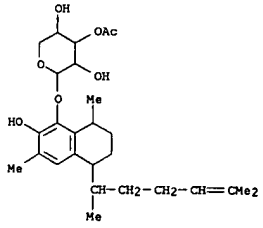


RN 106665-02-5 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)



RN 106665-03-6 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L11 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

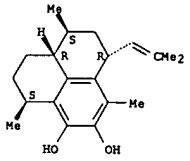


RN 106671-55-0 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, monoacetate, [3S-(3.alpha.,7.beta.,9.alpha.,9a.alpha.)]- (9CI) (CA INDEX NAME)

CM 1

CRN 106671-54-9
CMF C20 H28 O2

Absolute stereochemistry. Rotation (-).

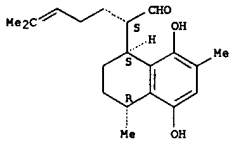


CM 2

CRN 64-19-7
CMF C2 H4 O2

L11 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1985:611133 CAPLUS
DOCUMENT NUMBER: 103:211133
TITLE: Eremophilane and serrulatane terpenoids from Eremophila rotundifolia
AUTHOR(S): Abell, Andrew D.; Massy-Westropp, Ralph A.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, 5001, Australia
SOURCE: Australian Journal of Chemistry (1985), 38(8), 1263-9
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The new terpenoids 9-oxoeremophila-10,11(13)-dien-12-al (I) and 5,8-dihydroxyserrulat-14-en-18-al (II) were isolated from E. rotundifolia. Their abs. stereochem. was established by chem. correlation with known compds.
IT **99305-32-5**
RL: BIOL (Biological study)
(from Eremophila rotundifolia, structure of)
RN 99305-32-5 CAPLUS
CN 1-Naphthaleneacetaldehyde, 1,2,3,4-tetrahydro-5,8-dihydroxy-4,7-dimethyl-.alpha.-(4-methyl-3-pentenyl)-, [1S-[1.alpha.(R*),4.beta.]]- (9CI) (CA INDEX NAME)

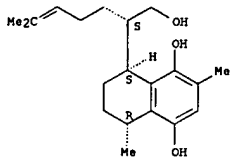
Absolute stereochemistry.



IT **99305-21-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of)
RN 99305-21-2 CAPLUS
CN 1,4-Naphthalenediol, 5,6,7,8-tetrahydro-8-[1-(hydroxymethyl)-5-methyl-4-hexenyl]-2,5-dimethyl-, [5R-[5.alpha.,8.beta.(S*)]]- (9CI) (CA INDEX NAME)

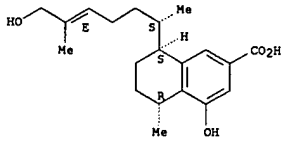
Absolute stereochemistry.

L11 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



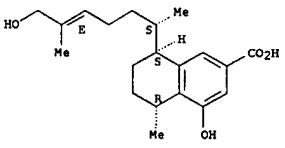
L11 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1980:146967 CAPLUS
DOCUMENT NUMBER: 92:146967
TITLE: The chemistry of Eremophila spp. XI. The absolute configuration of dihydroxyserrulatic acid
AUTHOR(S): Croft, Kevin D.; Ghisalberti, Emilio L.; Jefferies, Phillip R.; Stuart, Alan D.
CORPORATE SOURCE: Dep. Org. Chem., Univ. West. Australia, Nedlands, 6009, Australia
SOURCE: Australian Journal of Chemistry (1979), 32(9), 2079-83
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The (1'S)-configuration of dihydroxyserrulatic acid (I), isolated from E. serrulata, was detd. by transformation into the (1'S)-dimethylhexylnaphthalene II and by synthesis of its enantiomer III from (R)-citronellal.
IT **65003-68-1**
RL: PRP (Properties)
(abs. configuration of)
RN 65003-68-1 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5R-[5.alpha.,8.beta.(1S*,4E)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L11 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1978:7095 CAPLUS
DOCUMENT NUMBER: 88:7095
TITLE: The chemistry of Eremophila spp-VI. Stereochemistry and crystal structure of dihydroxyserrulatic acid
AUTHOR(S): Croft, Kevin D.; Ghisalberti, Emilio L.; Jefferies, Philip R.; Raston, Colin L.; White, Allan H.; Hall, Sydney R.
CORPORATE SOURCE: Crystallogr. Cent., Univ. West. Australia, Nedlands, Australia
SOURCE: Tetrahedron (1977), 33(12), 1475-80
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The structure of the title compd. (I) (from E. serrulata), a diterpenoid analog of codinene, was detd. I was characterized by chem. and spectral data and its relative stereochem. established by x-ray diffraction at 295 K. Std. degrdn. of I gave the naphthalene II.
IT **65003-68-1P**
RL: PREP (Preparation)
(from Eremophila serrulata, structure detn. of)
RN 65003-68-1 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, [5R-[5.alpha.,8.beta.(1S*,4E)]]- (9CI) (CA INDEX NAME)

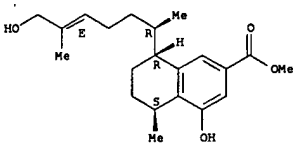
Absolute stereochemistry.
Double bond geometry as shown.



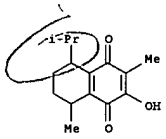
IT **65003-60-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)
RN 65003-60-3 CAPLUS
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-4-hydroxy-8-(6-hydroxy-1,5-dimethyl-4-hexenyl)-5-methyl-, methyl ester, [5.alpha.,8.beta.(1S*,4E)]-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.
Double bond geometry as shown.

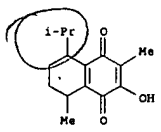
L11 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



L11 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1967:105061 CAPLUS
DOCUMENT NUMBER: 66:105061
TITLE: Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Marini-Bettolo, Giovanni B.; Casinovi, Carlo G.; Galeffi, Corrado; Delle Monache, Franco; Del Guercio, G.
CORPORATE SOURCE: Univ. Cattolica, Rome, Italy
SOURCE: Annali dell'Istituto Superiore di Sanita (1966), 2(2-3), 327-41
CODEN: AISSAW; ISSN: 0021-2571
DOCUMENT TYPE: Journal
LANGUAGE: Italian
AB CA 64, 12728d. The wood of M. altissima, which is widely used for furniture making, was studied for the irritating and cardiokinetic substances it contains. By means of column chromatog., the crude CHCl3 ext. of M. altissima was fractionated into 6 new quinones: red mansonone A (I), m. 117-18.degree., [.alpha.]20D 680.degree. (c 0.2, CHCl3); gold-yellow mansonone B (II), 68-9.degree.; orange mansonone C (III), m. 134-8.degree.; orange mansonone D (IV), m. 173-5.degree.; orange-yellow mansonone E (V), m. 148-9.degree.; violet-mansonone F (VI), m. 214-15.degree.. Their structures were partially elucidated by chem. and spectroscopic analysis. A C15 skeleton which is a common feature for the compds. suggests a terpene origin. Two have the structure of oxaphenalene found the 1st time in biflorin. I was easily reduced in H2O with Na hydrosulfite. I was reduced with Zn in Ac2O and pyridine to yield the diacetate, m. 158-60.degree.. Ac2O and NaOAc yielded the acetate, b0.02 120.degree.. II, III, IV, and V were reduced by Na hydrosulfite and reoxidized by air. III with pyridine, Ac2O, and Zn yielded the diacetate, m. 156-8.degree.. Boiling with an acetic acid soln. of o-phenylenediamine yielded the quinoxaline, m. 103-4.degree.. IV did not react with Ac2O and NaOAc. With Zn and Ac2O and pyridine it gave a diacetyl deriv. With o-phenylenediamine and acetate V gave a deriv., m. 148-50.degree.. With Zn, Ac2O, and pyridine V gave a diacetate, m. 110.degree.. VI is very sensitive to light and changes with time, especially in soln.
IT **14375-53-2**
RL: PRP (Properties)
(structure of)
RN 14375-53-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



L11 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1966:67994 CAPLUS
DOCUMENT NUMBER: 64:67994
ORIGINAL REFERENCE NO.: 64:12728d-h,12729a
TITLE: New class of quinones. Sesquiterpenoid quinones of Mansonia altissima
AUTHOR(S): Bettolo, G. B. Marini; Casinovi, C. G.; Galeffi, C.
CORPORATE SOURCE: 1st. Super. Sanita, Rome
SOURCE: Tetrahedron Letters (1965), (52), 4857-64
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
AB To sep. the irritative from the cardiac principles, the heartwood of M. altissima was submitted to systematic solvent extn. in which the 2 main pharmacol.-active principles appeared in the CHCl3 and EtOH exts., resp. Column chromatography on SiO2 and Al2O3 from an adequate series of solvents (C6H6, CHCl3, AcOEt) sepd. the CHCl3 irritative fraction into 6 C15-quinones designated as mansonones A, B, C, D, E, and F, m. 117-18.degree. (C6H12), 68-9.degree. (C6H14), 134-8.degree. (C6H14), 173-5.degree. (C6H12C6H6), 148-9.degree. (C6H12), and 214-15.degree. (C6H6), resp. Mansonone F, C15H12O3, characterized by its deep violet color, was reactive to .omicron.-(H2N)2C6H4, inert to acetylation and lacked OH absorption in the ir spectrum (N.M.R. spectrum given). The presence of a tricyclic 1,2-naphthoquinone (I) with the fragment -CMe:CHO-, in the 3rd ring, similar in structure to dihydrobiflorin was suggested. Mansonone E (II) on reductive acetylation gave a diacetate, C19H20O5, m. 110.degree.. II reacted with .omicron.-(H2N)2C6H4 to give the expected quinoxaline, m. 148-50.degree.. The ir spectra of II was similar to that of tetrahydrobiflorin. Mansonone C (III), gave a quinoxaline deriv., m. 103-4.degree., and was converted by reductive acetylation to a diacetate, m. 156-8.degree.. On the assumption of a common biogenesis with I and II it was deduced that III was identical with the cadalene 7,8-quinone of Lindahl (CA 49, 8223g). Mansonone B (IV) (monoacetate b0.02 120.degree.) .lambda. 263,339, 435 m.mu. (log .epsilon. 4.1, 2.53, 1.8, alc.) may have one of the 2 alternative formulas given. Mansonone A (V) showed absence of aromatic protons and benzylic methylenes and the proposed formulas is in accordance with those of I-IV and with the isoprene rule. V is probably identical with the compd. described by Sandermann and Dietrichs (CA 53, 14351e). Mansonone D (VI) gave no acetate but reacted with .omicron.-(H2N)2C6H4 to give a quinoxaline. A tentative structure was assigned. Spectral data were given for the compds.
IT **14375-53-2**, Mansonone B
(structure of)
RN 14375-53-2 CAPLUS
CN 1,4-Naphthalenedione, 5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



=> d ibib ab hitstr 1-3

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:522625 CAPLUS
DOCUMENT NUMBER: 137:98953
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

PRIORITY APPLN. INFO.: US 2000-235160P P 20000922
OTHER SOURCE(S): MARPAT 137:98953

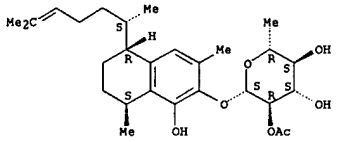
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

IT **433717-50-1**, SecoPseudopterosin E **433717-53-4**, SecoPseudopterosin F **433717-55-6**, SecoPseudopterosin G **433717-71-6**, Elisabethadione
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); **USES (Uses)**
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)

RN 433717-50-1 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 2-acetate (9CI) (CA INDEX NAME)

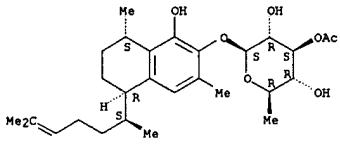
Absolute stereochemistry.

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



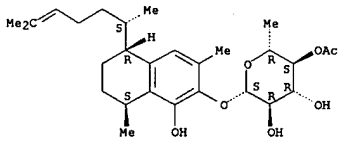
RN 433717-53-4 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 3-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433717-55-6 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 4-acetate (9CI) (CA INDEX NAME)

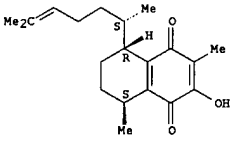
Absolute stereochemistry.



RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

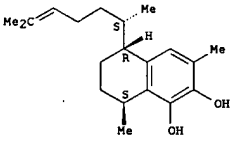
L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



IT **199439-75-3 433300-39-1 433300-41-5**, Elisabethanol **433331-01-2 441019-54-1 441019-55-2 441019-56-3 441019-57-4**
RL: THU (Therapeutic use); BIOL (Biological study); **USES (Uses)**
(anti-inflammatory compds. from Pseudopterogorgia elisabethae)

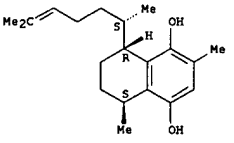
RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433300-39-1 CAPLUS
CN 1,4-Naphthalenediol, 8-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2,5-dimethyl-, (5S,8R)- (9CI) (CA INDEX NAME)

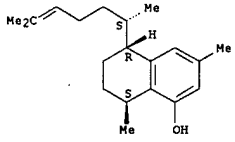
Absolute stereochemistry.



RN 433300-41-5 CAPLUS
CN 1-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

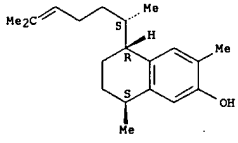
Absolute stereochemistry.

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



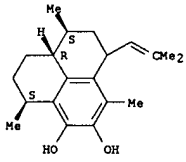
RN 433331-01-2 CAPLUS
CN 2-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 441019-54-1 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,9S,9aR)- (9CI) (CA INDEX NAME)

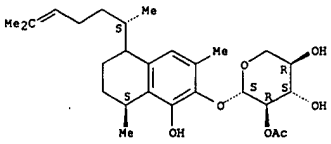
Absolute stereochemistry.



RN 441019-55-2 CAPLUS
CN .beta.-D-Xylopyranoside, (8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl, 2-acetate (9CI) (CA INDEX NAME)

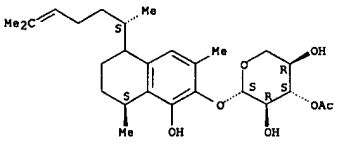
Absolute stereochemistry.

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



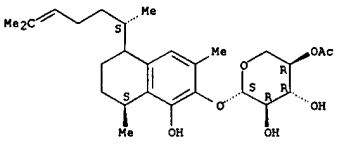
RN 441019-56-3 CAPLUS
CN .beta.-D-Xylopyranoside, (8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl, 3-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 441019-57-4 CAPLUS
CN .beta.-D-Xylopyranoside, (8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl, 4-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



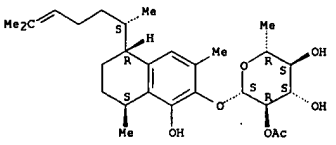
L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:428919 CAPLUS
DOCUMENT NUMBER: 137:15779
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002041521	A5	20020611	AU 2002-41521	20011127
EP 1339729	A2	20030903	EP 2001-988191	20011127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2000-253160P P 20001128
WO 2001-US44334 W 20011127
OTHER SOURCE(S): MARPAT 137:15779
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.
IT **433717-50-1P**, Secopseudopterosin E **433717-53-4P**, Secopseudopterosin F **433717-55-6P**, Secopseudopterosin G **433717-71-6P**, Elisabethadione
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)
RN 433717-50-1 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-

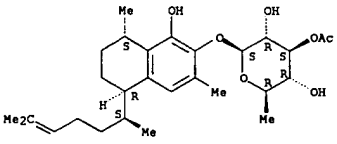
L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



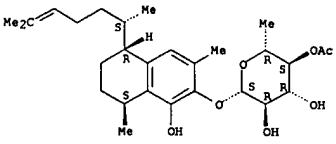
RN 433717-53-4 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 3-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433717-55-6 CAPLUS
CN .beta.-D-Glucopyranoside, (5R,8S)-5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-1-hydroxy-3,8-dimethyl-2-naphthalenyl 6-deoxy-, 4-acetate (9CI) (CA INDEX NAME)

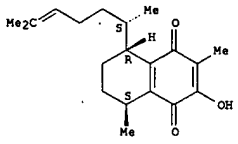
Absolute stereochemistry.



RN 433717-71-6 CAPLUS
CN 1,4-Naphthalenedione, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

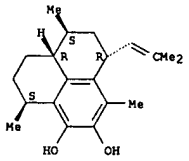
Absolute stereochemistry.

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



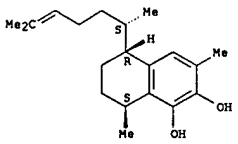
IT **106671-54-9 199439-75-3 433300-39-1 433300-41-5 433331-01-2**
RL: THU (Therapeutic use); BIOL (Biological study); **USES (Uses)**
(pharmacol. activity of compds. derived from Pseudopterogorgia elisabethae)
RN 106671-54-9 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, (3S,7R,9S,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 199439-75-3 CAPLUS
CN 1,2-Naphthalenediol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

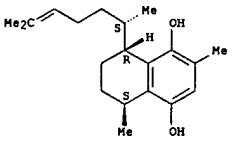
Absolute stereochemistry.



RN 433300-39-1 CAPLUS
CN 1,4-Naphthalenediol, 8-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-2,5-dimethyl-, (5S,8R)- (9CI) (CA INDEX NAME)

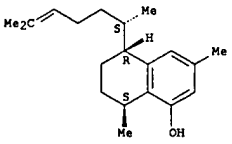
Absolute stereochemistry.

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



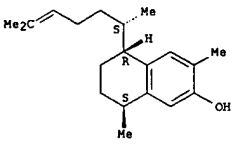
RN 433300-41-5 CAPLUS
CN 1-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 433331-01-2 CAPLUS
CN 2-Naphthalenol, 5-[(1S)-1,5-dimethyl-4-hexenyl]-5,6,7,8-tetrahydro-3,8-dimethyl-, (5R,8S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1987:84986 CAPLUS
DOCUMENT NUMBER: 106:84986
TITLE: Pseudopterosin and its synthetic derivatives
INVENTOR(S): Jacobs, Robert S.; Fenical, William H.
PATENT ASSIGNEE(S): University of California, Berkeley, USA
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 198689	A2	19861022	EP 1986-302711	19860411
EP 198689	A3	19870610		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4745104	A	19880517	US 1985-723214	19850415
CA 1288771	A1	19910910	CA 1986-505110	19860326
ZA 8602488	A	19861126	ZA 1986-2488	19860403
DK 8601626	A	19861016	DK 1986-1626	19860410
AU 8656065	A1	19861023	AU 1986-56065	19860414
ES 553952	A1	19871101	ES 1986-553952	19860414
JP 62036395	A2	19870217	JP 1986-85238	19860415
JP 2748001	B2	19980506		

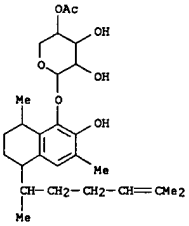
PRIORITY APPLN. INFO.: US 1985-723214 19850415

AB The title compds. I [R1-R4 = H, C1-6 acyl; R5 = H, HOCH2; R6 = (un)substituted hydrocarbonyl] were isolated from Caribbean gorgonians or prepd. and tested for analgesic and antiinflammatory activity. Thus, pseudopterosin A (R1-R5 = H, R6 = Me2C:CH) was acetylated with Ac2O in pyridine to give 79% I (R1-R4 = Ac, R5 = H, R6 = Me2C:CH) (II). In the phenylquinone writhing test in mice 25 mg II/kg s.c. reduced writhing 34%.

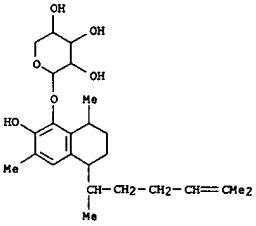
IT **106665-01-4 106665-02-5 106665-03-6 106671-55-0**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); **USES (Uses)**
(analgesic and antiinflammatory activity of)

RN 106665-01-4 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 4-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

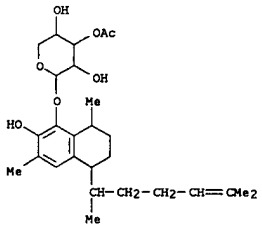


RN 106665-02-5 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, [5R-(5.alpha.(S*),8.beta.)]- (9CI) (CA INDEX NAME)



RN 106665-03-6 CAPLUS
CN .beta.-D-Xylopyranoside, 5-(1,5-dimethyl-4-hexenyl)-5,6,7,8-tetrahydro-2-hydroxy-3,8-dimethyl-1-naphthalenyl, 3-acetate, [5R-[5.alpha.(S*),8.beta.]]- (9CI) (CA INDEX NAME)

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

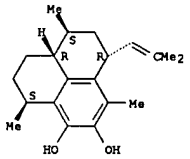


RN 106671-55-0 CAPLUS
CN 1H-Phenalene-4,5-diol, 2,3,7,8,9,9a-hexahydro-3,6,9-trimethyl-7-(2-methyl-1-propenyl)-, monoacetate, [3S-(3.alpha.,7.beta.,9.alpha.,9a.alpha.)]- (9CI) (CA INDEX NAME)

CM 1

CRN 106671-54-9
CMF C20 H28 O2

Absolute stereochemistry. Rotation (-).



CM 2

CRN 64-19-7
CMF C2 H4 O2

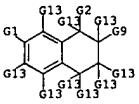
=> d ibib ab fqhit 1-21

L19 ANSWER 1 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 139:159969 MARPAT
TITLE: Nonsteroidal analogs of 2-methoxyestradiol for treatment of diseases characterized by undesirable angiogenesis and proliferative activity
INVENTOR(S): Agoston, Gregory; Shah, Jamshed H.; Hunsucker, Kimberly A.; Treston, Anthony M.; Pribluda, Victor S.
PATENT ASSIGNEE(S): Entremed, Inc., USA
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003063791	A2	20030807	WO 2003-US2917	20030130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003187076	A1	20031002	US 2003-354921	20030130

PRIORITY APPLN. INFO.: US 2002-354046P 20020130
AB The invention provides compns. and methods for treating mammalian disease characterized by undesirable angiogenesis and proliferative activity by administering nonsteroidal derivs. of 2-methoxyestradiol, e.g. I (prepn. described).

MSTR 1



G2 = Me
G13 = alkenyl (SO) / 137 / OH (SO)

MPL: claim 1

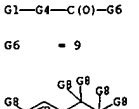
L19 ANSWER 1 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

L19 ANSWER 2 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 138:238176 MARPAT
TITLE: Preparation of amides as Rho kinase inhibitors
INVENTOR(S): Uehata, Masayoshi; Takanashi, Shinichi; Hamaguchi, Seiji
PATENT ASSIGNEE(S): Mitsubishi Pharma Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 68 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003073357	A2	20030312	JP 2001-266055	20010903

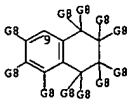
PRIORITY APPLN. INFO.: JP 2001-266055 20010903
AB The title amides RaN(Rb)CORc [Ra = (un)substituted N-contg. heterocyclic ring; Rb = H, etc.; Rc = aryl, etc.] are prepd. Compds. of this invention in vitro showed IC50 values of 23 nM to 48 nM against human Rho kinase. Formulations are given.

MSTR 1



G1—G4—C(O)—G6

G6 = 9



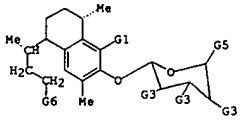
G8 = alkyl<(1-18)> (SO (1-) G3) / CN / OH / acyl
DER: or pharmaceutically acceptable salts or hydrates
MPL: claim 1

L19 ANSWER 3 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 137:98953 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002091093	A1	20020711	US 2001-993666	20011127

PRIORITY APPLN. INFO.: US 2000-235160P 20000922
AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprise the administration of a pseudopterosin (I, R1 = e.g., H, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having 2-20 carbon atoms, R2, R3, and R4 = each independently H or an C1-6 acyl, R5 = H, Me, or CH2OH, and R6 = hydrocarbon with 1-10 carbon atoms) are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. About 1.0 kg P. elisabethae was freeze-dried and extd. with MeOH and followed with 2 chloroform extns. The solvent was evapd. under reduced pressure to give 360 g a gum. This gum was then re-dissolved in 60% aq. MeOH which was partitioned with hexane to give 202 g hexane ext. This defatted ext. was then extd. with CHCl3 to yield 11.5 g an oil which chromatographed on a silica gel column to give various pseudopterosins, seco-pseudopterosins, and elisabethadiol. Pseudopterosins had high anti-inflammatory activity.

MSTR 2



G1 = OH
G6 = hydrocarbyl<(1-10)>
MPL: claim 11
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

L19 ANSWER 4 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 137:15779 MARPAT
TITLE: Anti-inflammatory compounds derived from Pseudopterogorgia elisabethae
INVENTOR(S): Jacobs, Robert S.; Kerr, Russell G.
PATENT ASSIGNEE(S): The Regents of the University California, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

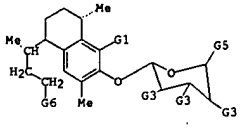
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044191	A2	20020606	WO 2001-US44334	20011127
WO 2002044191	A3	20030417		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002041521	A5	20020611	AU 2002-41521	20011127
EP 1339729	A2	20030903	EP 2001-988191	20011127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2000-253160P 20001128
WO 2001-US44334 20011127

AB Methods for treating, preventing, or inhibiting diseases and disorders assocd. with inflammation, cell-proliferation, and pain comprising the administration of a compd. having the structural formula I wherein R1 is a hydrogen, alkyl, aryl, hydroxyalkyl, cycloalkyl, cycloalkenyl, carboxylic acid, alkylamino or amide group having from 2 to 20 carbon atoms, R2, R3, and R4 are each independently hydrogen or an acyl residue having from 1 to 6 carbon atoms, R5 is hydrogen, CH3, or CH2OH, and R6 is an organo group such as a hydrocarbon having from 1 to 10 carbon atoms are disclosed. Other seco-pseudopterosins and compds. related to pseudopterosins are disclosed. Examples are provided demonstrating the antiinflammatory, antiproliferative and analgesic activity of several compds. (pseudopterosin M, seco-pseudopterosin E, elisabethdione, etc.) isolated from P. elisabethae.

MSTR 2

L19 ANSWER 4 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G1 = OH
G6 = hydrocarbyl<(1-10)>
MPL: claim 11
NTE: or pharmaceutically acceptable salts, prodrugs, or active metabolites

L19 ANSWER 5 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 133:74170 MARPAT
TITLE: Preparation of trienoic retinoid compounds with retinoic acid receptor and retinoid X receptor activity
INVENTOR(S): Boehm, Marcus F.; Zhang, Lin; Nadzan, Alex M.
PATENT ASSIGNEE(S): Ligand Pharmaceuticals Incorporated, USA
SOURCE: U.S., 27 pp., Cont.-in-part of U.S. Ser. No. 366,613, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6083977	A	20000704	US 1995-481877	19950607
CA 2208981	AA	19960711	CA 1995-2208981	19951221
WO 9620913	A1	19960711	WO 1995-US16695	19951221
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9646430	A1	19960724	AU 1996-46430	19951221
AU 712187	B2	19991028		
EP 800503	A1	19971015	EP 1995-944360	19951221
EP 800503	B1	20000510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
JP 10511948	T2	19981117	JP 1995-521088	19951221
CN 1220656	A	19990623	CN 1995-197736	19951221
CN 1121374	B	20030917		
AT 192731	E	20000515	AT 1995-944360	19951221
ES 2148593	T3	20001016	ES 1995-944360	19951221
NO 9703017	A	19970828	NO 1997-3017	19970627

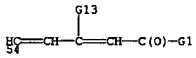
PRIORITY APPLN. INFO.: US 1994-366613 19941230
US 1995-480127 19950607
US 1995-481877 19950607
WO 1995-US16695 19951221

AB Novel trienoic retinoid compds., e.g. of formula I (R1, R2, R4 = H, aryl, heteroaryl, CF3, alkyl, fluoroalkyl, perfluoroalkyl; R3 = H, CF3, alkyl, alkyl, fluoroalkyl, (substituted) OH; R5-R10 = H, alkyl, CF3; R11 = alkyl; X = (substituted) CO2H, (substituted) CONH2; Y = C, O, N, S), having activity for retinoic acid receptors and retinoid X receptors are prepd. Thus, II was prepd. from 3,5-di-tert-butylbenzoic acid and tri-Et 3-methyl-4-phosphonocrotonate in several steps. The IC50 of II was 253 nM against mitochondrial function of RPMI 8226 cell line. Pharmaceutical compns. contg. the title compds. and methods for their use are described.

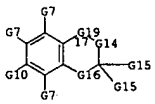
MSTR 2

G4 = 54

L19 ANSWER 5 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G6 = 17



G7 = CF3
G10 = OH
G13 = Ak<(1-4)>
G14 = (0-2) 90

G15 = Ak<(1-6)>
G16 = 95

G19 = 123

MPL: claim 1
NTE: substitution is restricted

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 6 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 131:58753 MARPAT
TITLE: 2,4,6-Trisubstituted pyridines with estrogenic activity and methods for the solid-phase synthesis thereof
INVENTOR(S): Chiu, Chingfan; Tang, Zhilian; Ellingboe, John Watson
PATENT ASSIGNEE(S): American Home Products Corporation, USA
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

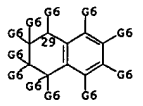
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932447	A2	19990701	WO 1998-US26363	19981210
WO 9932447	A3	19991014		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9933528	A1	19990712	AU 1999-33528	19981210
US 6384060	B1	20020507	US 2000-703297	20001101
US 6384057	B1	20020507	US 2000-703386	20001101
US 6384058	B1	20020507	US 2000-703519	20001101
US 6503917	B1	20030107	US 2000-703508	20001101
PRIORITY APPLN. INFO.:			US 1997-109802P	19971211
			US 1997-989057	19971211
			US 1998-209663	19981210
			WO 1998-US26363	19981210

AB The invention relates to (hydroxyaryl)pyridines I, II, and III [n = 1, 2; R1 = alkyl, cycloalkyl, Ph, R4C6H4 (R4 = H, F, Cl, Br, alkyl, cycloalkyl, alkoxy, methylenedioxy); R2 = furanyl, pyridyl, thienyl, naphthalenyl, Ph, R4C6H4; R3 = H, F, Cl, Br, NO2, alkyl, cycloalkyl, alkoxy], with estrogenic activity, to processes for their prepn., to a combinatorial library and solid phase methods for prepg. libraries of the compds., to utilizing libraries of the compds. for drug discovery, and to methods of treatment and pharmaceutical compns. thereof. Thus, condensation of Wang resin bound 2-HOC6H4COMe with 3,4-F3C6H3CHO gave resin-bound 2-HOC6H4COCH:CHC6H3F2-3,4 which condensed with 4-ClC6H4C(:CH2)OSiMe3 to give resin-bound pentanedione IV. Cyclocondensation of IV with NH4OH and subsequent resin cleavage gave the trisubstituted pyridine V which at 1.mu.M possessed 14% estrogenic activity in an estrogen receptor assay.

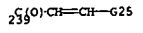
MSTR 1

G1 = 29

L19 ANSWER 6 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G5 = alkyl<(1-7)>
G19 = 239



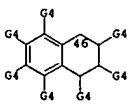
G22 = OH
G25 = alkyl<(1-7)>
DER: and all crystalline forms and pharmaceutically acceptable salts
MPL: claim 1
NTE: substitution is restricted
NTE: also incorporates claim 19
STE: and enantiomers, racemic mixtures and diastereomeric mixtures

L19 ANSWER 7 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 131:5112 MARPAT
TITLE: Preparation of N-[2-(1-naphthyl)ethyl]acetamides and analogs as melatonin receptor ligands
INVENTOR(S): Lefoulon, Francois; Demuynck, Luc; Lesieur, Daniel; Depreux, Patrick; Bennejean, Caroline; Renard, Pierre; Delagrange, Philippe
PATENT ASSIGNEE(S): Adir et Compagnie, Fr.
SOURCE: Eur. Pat. Appl., 44 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 919541	A1	19990602	EP 1998-402963	19981127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2771739	A1	19990604	FR 1997-14975	19971128
FR 2771739	B1	20010420		
US 6143789	A	20001107	US 1998-199531	19981125
NO 9805516	A	19990531	NO 1998-5516	19981126
AU 9894213	A1	19990617	AU 1998-94213	19981127
AU 757436	B2	20030220		
CN 1221734	A	19990707	CN 1998-122715	19981127
BR 9805031	A	20000328	BR 1998-5031	19981127
NZ 333046	A	20000428	NZ 1998-333046	19981127
JP 11263761	A2	19990928	JP 1998-338669	19981130
ZA 9810872	A	19990601	ZA 1998-10872	19990601
PRIORITY APPLN. INFO.:			FR 1997-14975	19971128

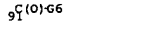
AB R2Z1R1 [I; R = halo, alkyl, alkanoyloxy, aryl, etc.; R1 = NR2COR21, NR2CONHR21, CONR2R21, etc.; R2 = H or alkyl; R21 = alk(en)yl, aryl, C6H4Ph, etc.; Z = (un)substituted 2-8,1-naphthylene, -1,2-, -2,3- (sic), or -1,4-dihydronaphthylene; Z1 = (un)substituted alkylene] were prepd. Thus, N-[2-(7-methoxy-1-naphthyl)ethyl]acetamide was converted in 4 steps to N-[2-(7-methoxy-3-phenyl-1-naphthyl)ethyl]acetamide. Data for biol. activity of I were given.

MSTR 5



G2 = alkylene<(1-6)> (SO (1-) G3)
G4 = OH / 91

L19 ANSWER 7 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G6 = alkenyl<(2-6)> (SO)
MPL: claim 24

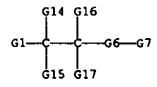
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 8 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 130:325148 MARPAT
TITLE: Preparation of heterocyclic compounds for the treatment of frequent urination or urinary incontinence
INVENTOR(S): Koga, Ichiro; Okada, Atsushi; Narita, Kazuhisa
PATENT ASSIGNEE(S): Nippon Kayaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

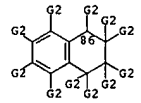
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9921839	A1	19990506	WO 1998-JP4807	19981023
W: AU, CA, CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
TW 407153	B	20001001	TW 1998-87117279	19981020
AU 9896469	A1	19990517	AU 1998-96469	19981023
PRIORITY APPLN. INFO.:			JP 1997-309504	19971027
			WO 1998-JP4807	19981023

AB The title compds. ArX(CH2)mB [Ar represents optionally substituted indanyl, naphthyl or tetrahydronaphthyl; X represents C(OH)R1CR2R3 or CR1:CR3 (wherein R1 represents hydrogen, lower alkyl, cycloalkyl or optionally substituted phenyl; and R2 and R3 are the same or different and each represents hydrogen or lower alkyl); m is an integer of 1 or 2; and B represents an optionally substituted heterocycle] are prepd. In a test for bladder contraction inhibition, the effect of trans-1-(4-methoxy-5,6,7,8-tetrahydro-1-naphthyl)-2-methyl-3-(2-methyl-1H-imidazol-1-yl)-1-propene hydrochloride was twice that of flavoxate hydrochloride in rats.

MSTR 1



G1 = 86



G2 = alkyl<(1-3)> (SO (1-) X) / OH / CH2Ph
G6 = (1-2) CH2

L19 ANSWER 8 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)
G16 = alkyl<(1-6)>
DER: or pharmacologically acceptable salts
MPL: claim 1

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

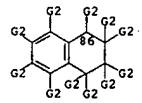
L19 ANSWER 9 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 130:139339 MARPAT
TITLE: Preparation of heterocyclic moiety-containing aromatic ketone derivatives for treatment of frequent urination or urinary incontinence
INVENTOR(S): Koga, Ichiro; Narita, Kazuhisa; Okada, Atsushi; Nakamura, Iwao
PATENT ASSIGNEE(S): Nippon Kayaku Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9903835	A1	19990128	WO 1998-JP3179	19980715
W: AU, CA, CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9882425	A1	19990210	AU 1998-82425	19980715
PRIORITY APPLN. INFO.:			JP 1997-208378	19970718
			JP 1998-90699	19980320
			JP 1998-99915	19980330
			WO 1998-JP3179	19980715

AB The title compds. ArCOC(R1)(R2)(CH2)mBO (I) [Ar represents optionally substituted indanyl or tetrahydronaphthyl (excluding 5,6,7,8-tetrahydro-2-naphthyl); R1 and R2 are the same or different and each represents hydrogen or lower alkyl; m is 1 or 2; and BO represents an optionally substituted imidazolyl, imidazolinyl, imidazolidinyl, or triazolyl group] are prepd. I are calcium antagonists. In a test for bladder contraction inhibition, the effect of 1-(4-methoxy-5,6,7,8-tetrahydro-1-naphthyl)-2-methyl-3-(2-methyl-1H-imidazol-1-yl)-1-propanone hydrochloride was twice that of flavoxate hydrochloride in rats.

MSTR 1

G1 = 86



G2 = alkyl<(1-3)> (SO (1-) X) / OH / CF3 / hydrocarbyl<(1-10)>
DER: or pharmacologically acceptable salts
MPL: claim 1
NTE: also incorporates claim 11
NTE: substitution is restricted

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

L19 ANSWER 9 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 10 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 127:262706 MARPAT
TITLE: Preparation of 2-amino-4-cycloalkylamino-1,3,5-triazines as herbicides and plant growth regulators
INVENTOR(S): Lorenz, Klaus; Minn, Klemens; Willms, Lothar; Bauer, Klaus; Bieringer, Hermann; Rosinger, Christopher
PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

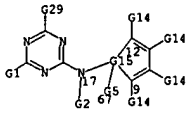
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9731904	A1	19970904	WO 1997-EP702	19970214
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, YU				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19607450	A1	19970904	DE 1996-19607450	19960228
CA 2248338	AA	19970904	CA 1997-2248338	19970214
AU 9717693	A1	19970916	AU 1997-17693	19970214
AU 714187	B2	19991223		
EP 885201	A1	19981223	EP 1997-903284	19970214
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI, RO				
CN 1212687	A	19990331	CN 1997-192683	19970214
CN 1083439	B	20020424		
BR 9707781	A	19990727	BR 1997-7781	19970214
JP 2000505462	T2	20000509	JP 1997-530544	19970214
US 6069114	A	20000530	US 1997-805576	19970225
ZA 9701642	A	19971125	ZA 1997-1642	19970226

PRIORITY APPLN. INFO.: DE 1996-19607450 19960228
WO 1997-EP702 19970214

AB Title compds. [I; R1,R2 = H, (di)(alkyl)amino, hydrocarbyl, heterocyclyl, etc.; NR1R2 = heterocyclyl; R3,R5 = H, halo, cyano, hydrocarbyl(oxy), etc.; R4 = H, (di)(alkyl)amino, hydrocarbyl(oxy), etc.; R6 = H or 1-4 of halo, cyano, hydrocarbyl(oxy), etc.; R4 = H, (di)(alkyl)amino, hydrocarbyl(oxy), etc.; Z = 1-4 of CH2, O, CO, (alkyl)imino, etc.; Z1,Z2 = bond, CH2, O, CO, (alkyl)imino, etc.] were prepd. as herbicides and plant growth regulators (no data). Thus, 1-amino-5,7-dimethyl-1,2,3,4-tetrahydronaphthalene hydrochloride was condensed with H2NC(:NH)NHCN.HCl and the product cyclocondensed with 2-FC6H4CO2Me to give title compd. II.

MSTR 1

L19 ANSWER 10 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G5 = Ak (SO)
G10 = O
G14 = CN
G15 = 105-17 107-12 105-67 106-9

G18 = 174

G25 = Me
DER: or salts
MPL: claim 1
NTE: substitution is restricted

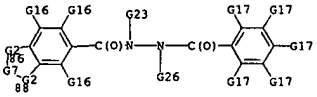
L19 ANSWER 11 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 127:19520 MARPAT
TITLE: Control of insects in fabrics by hydrazine derivatives
INVENTOR(S): Watabe, Tertsuo; Yamamoto, Yumiko
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan; Sankyo Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09100201	A2	19970415	JP 1995-256328	19951003

PRIORITY APPLN. INFO.: JP 1995-256328 19951003

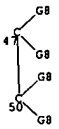
AB Fabrics are protected from insects by hydrazine derivs. I (R1-4 = H, halo, C1-4 alkyl, etc.;R5-7 = halo, nitro, cyano, C1-4 alkyl, etc.; R8-10 = H, halo, C1-4 alkyl, C1-4 haloalkyl; R11 = H, cyano, etc.; R12 = C3-10 branched alkyl; p, m, n = 0,1), or other pesticides, insect repellents, microbicides, and dyes.

MSTR 1A



G2 = 11

G3 = alkyl<(1-4)>
G4 = acyl
G7 = 47-88 50-86



G16 = OH
MPL: claim 1
NTE: alkyl in G26 is branched
NTE: additional ring formation also claimed

L19 ANSWER 11 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

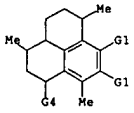
L19 ANSWER 12 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 126:135635 MARPAT
TITLE: Use of pseudopterosins for promoting wound healing
INVENTOR(S): Haimes, Howard B.; Jimenez, Pablo A.
PATENT ASSIGNEE(S): Osteoarthritis Sciences, Inc., USA; Haimes, Howard B.; Jimenez, Pablo A.
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9640160	A1	19961219	WO 1996-US9039	19960606
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
US 5597808	A	19970128	US 1995-486359	19950607
CA 2223462	AA	19961219	CA 1996-2223462	19960606
AU 9661532	A1	19961230	AU 1996-61532	19960606
AU 707134	B2	19990701		
EP 831851	A1	19980401	EP 1996-919108	19960606
EP 831851	B1	20021120		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11506781	T2	19990615	JP 1996-501453	19960606
AT 227995	E	20021215	AT 1996-919108	19960606
US 6022862	A	20000208	US 1997-973126	19971203

PRIORITY APPLN. INFO.: US 1995-486359 19950607
WO 1996-US9039 19960606

AB Methods of promoting wound healing and the growth and proliferation of keratinocytes, fibroblasts and endothelial cells comprise contacting a wound with an effective wound healing amt. of a compn. comprising a pseudopterosin or pseudopterosin deriv. Thus, a pseudopterosin ointment contained pseudopterosin A Me ether 0.5, white petrolatum 84.0, white wax 10.0, cholesterol 3.0, and diisopropyl adipate 2.5. Several pseudopterosin alkyl ethers were prepd. starting from pseudopterosin A. The effectiveness of pseudopterosin A Me ether in skin wound healing was demonstrated in guinea pigs.

MSTR 1



L19 ANSWER 12 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

G1 = OH
G4 = Ak<(1-10)> (SO G9)
MPL: claim 1

L19 ANSWER 13 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 125:328301 MARPAT
TITLE: Preparation of N-phenalenylamides and analogs as melatoninergic receptor ligands
INVENTOR(S): Langlois, Michel; Mathe-Allainmat, Monique; Delagrange, Philippe; Renard, Pierre; Guardiola, Beatrice
PATENT ASSIGNEE(S): Adir Et Compagnie, Fr.
SOURCE: Eur. Pat. Appl., 66 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 737670	A1	19961016	EP 1996-400777	19960411
EP 737670	B1	19990721		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
FR 2732964	A1	19961018	FR 1995-4503	19950414
FR 2732964	B1	19970516		
AT 182325	E	19990815	AT 1996-400777	19960411
ES 2136947	T3	19991201	ES 1996-400777	19960411
CA 2174034	AA	19961015	CA 1996-2174034	19960412
CA 2174034	C	20010102		
NO 9601456	A	19961015	NO 1996-1456	19960412
ZA 9602938	A	19961017	ZA 1996-2938	19960412
AU 9650628	A1	19961024	AU 1996-50628	19960412
AU 704261	B2	19990415		
JP 08291121	A2	19961105	JP 1996-91127	19960412
CN 1139666	A	19970108	CN 1996-105003	19960412
CN 1064349	B	20010411		
US 5712312	A	19980127	US 1996-631196	19960412
US 5849781	A	19981215	US 1997-942177	19971001

PRIORITY APPLN. INFO.: FR 1995-4503 19950414
US 1996-631196 19960412

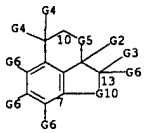
AB Title compds. [e.g., I; R1-R4 = H, halo, alkyl, alkoxy, etc.; R5 = H, alkyl, aryl, etc.; R6 = alkanoyl, (alkyl)amino, etc.; R7,R8 = H, alkyl, alkoxy; Z = O, S, CH:CH, CH2CH2, etc.; dashed line = optional bond; n = 1-3] as melatoninergic receptor ligands (no data). Thus, 1-chloromethylnaphthalene was alkylated by AcNHCH(CO2Et)2 and the decarboxylated product cyclized to give, after redn., title compd. II.

MSTR 1

G1—G12—G16

G1 = 10

L19 ANSWER 13 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



G4 = alkyl<(1-6)>
G5 = (1-3) CH2
G6 = OH / alkyl<(1-6)> (SO (1-) X)
G10 = 95-7 96-13

DER: and pharmaceutically acceptable base addition salts
MPL: claim 1
NTE: substitution is restricted
STE: and enantiomers and diastereoisomers

L19 ANSWER 14 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 125:196058 MARPAT
TITLE: Preparation of new trienoic retinoid compounds and their activity toward retinoid receptors
INVENTOR(S): Boehm, Marcus F.; Zhang, Lin; Bennani, Youssef L.; Nadzan, Alex M.
PATENT ASSIGNEE(S): Ligand Pharmaceuticals Incorporated, USA
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

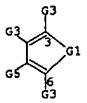
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620913	A1	19960711	WO 1995-US16695	19951221
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5721103	A	19980224	US 1995-480127	19950607
US 6083977	A	20000704	US 1995-481877	19950607
AU 9646430	A1	19960724	AU 1996-46430	19951221
AU 712187	B2	19991028		
EP 800503	A1	19971015	EP 1995-944360	19951221
EP 800503	B1	20000510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
BR 9510414	A	19980519	BR 1995-10414	19951221
JP 10511948	T2	19981117	JP 1995-521088	19951221
AT 192731	E	20000515	AT 1995-944360	19951221
NO 9703017	A	19970828	NO 1997-3017	19970627

PRIORITY APPLN. INFO.: US 1994-366613 19941230
US 1995-480127 19950607
US 1995-481877 19950607
WO 1995-US16695 19951221

AB The title compds., e.g., I [R1, R2, R4 = H, aryl, heteroaryl, (fluorinated) alkyl, labeled alkyl; R3, R5 = H, (fluorinated) alkyl, OH, alkoxy; R6 = (labeled) alkyl; R7 = alkyl; X = (substituted) CO2H, (substituted) CONH2], having activity for retinoic acid receptors and retinoid X receptors are prepd. Thus, II was prepd. in 5 steps from 3,5-di-tert-butylbenzoic acid. II showed a potency of <1 nM on retinoic acid receptor-.gamma.. Also provided are pharmaceutical compns. incorporating such compds. and methods for their use.

MSTR 3A

L19 ANSWER 14 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



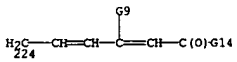
G1 = 73-3 74-6

G2 = 116

G3 = CF3
G5 = OH
G9 = Ak<(1-4)>
G19 = alkyl<(1-6)>
G20 = (1-3) 123

G26 = 158

G32 = 224



MPL: claim 1
NTE: substitution is restricted

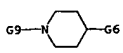
L19 ANSWER 15 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 122:205210 MARPAT
TITLE: Sigma receptor ligands, their preparation, and their therapeutic use
INVENTOR(S): Glennon, Richard A.; Fischer, James B.
PATENT ASSIGNEE(S): Cambridge Neuroscience, Inc., USA; Virginia Commonwealth University
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9500131	A1	19950105	WO 1994-US7121	19940623
W: AU, CA, CN, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2166100	AA	19950105	CA 1994-2166100	19940623
AU 9471776	A1	19950117	AU 1994-71776	19940623
ZA 9404513	A	19960116	ZA 1994-4513	19940623
EP 714292	A1	19960605	EP 1994-920804	19940623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 6087346	A	20000711	US 1996-564362	19960221

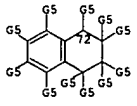
PRIORITY APPLN. INFO.: US 1993-82406 19930623
WO 1994-US7121 19940623

AB Methods are disclosed for the treatment of central nervous system disorders, neurol. disorders, gastrointestinal disorders, drug abuse, angina, migraine, hypertension, and depression by administering a pharmaceutical compn. comprising an effective amt. of certain .sigma. receptor ligands (Markush included) to a patient in need of such treatment. Also disclosed are .sigma. receptor ligands having high binding to the .sigma. receptor, and pharmaceutical compns. thereof. Prepn. of selected compds. of the invention is described, and results of .sigma.-1 and .sigma.-2 binding assays are included.

MSTR 1



G2 = Ak<BD (0-) D (0) T> (SO OH)
G3 = 72



G5 = alkyl<(1-6)> / OH / CF3
DER: and pharmaceutically acceptable salts
MPL: claim 1

L19 ANSWER 15 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

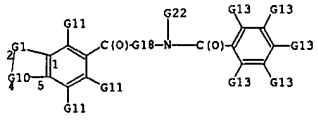
L19 ANSWER 16 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 122:125988 MARPAT
TITLE: Synergistic insecticides containing hydrazine and carbamate derivatives
INVENTOR(S): Watabe, Tetsuo; Kodama, Seiichiro; Masui, Akio; Yokoi, Shinji; Ichinose, Reiji
PATENT ASSIGNEE(S): Nippon Kayaku Kk, Japan; Sankyo Co
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06256108	A2	19940913	JP 1993-43815	19930304

PRIORITY APPLN. INFO.: JP 1993-43815 19930304

AB A synergistic compn. contains I [N-(5-methyl-1,4-benzodioxane-6-carbo)-N'-t-butyl-N'-(3,5-dimethylbenzoyl)hydrazine], or its derivs. (Markush structure given), in combination with a carbamate deriv. like pyrimicarb to control insects (e.g., Pletella maculipennis).

MSTR 1B



G1 = 10-4 11-1

G2 = 14

G5 = alkyl<(1-4)> / acyl
G10 = 97-2 98-5

L19 ANSWER 16 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

G11 = OH
MPL: claim 1
NTE: alkyl in G22 is branched

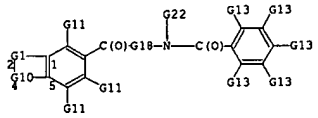
L19 ANSWER 17 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 122:74622 MARPAT
TITLE: Synergistic insecticides containing hydrazine derivatives
INVENTOR(S): Watabe, Tetsuo; Kodama, Seiichiro; Masui, Akio; Yokoi, Shinji; Ichinose, Reiji
PATENT ASSIGNEE(S): Nippon Kayaku Kk, Japan; Sankyo Co
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06298609	A2	19941025	JP 1993-92997	19930420

PRIORITY APPLN. INFO.: JP 1993-92997 19930420

AB A synergistic insecticide contains a hydrazine deriv. (Markush structure given) such as N-(5-methyl-1,4-benzodioxan-6-carbo)-N'-t-butyl-N'-(3,5-dimethylbenzoyl)hydrazine (I) and a compd. selected from the group comprising nitromethylene compds., nitroguanidine compds., imidazolidine compds., tetrahydropyrimidine compds. and amidine compds. Insecticidal activities of the mixts. against Plutella xylostella (cabbage moth) were demonstrated.

MSTR 1B



G1 = 10-4 11-1

G2 = 14

G5 = alkyl<(1-4)> / acyl
G10 = 97-2 98-5

L19 ANSWER 17 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

G11 = OH
MPL: claim 1
NTE: alkyl in G22 is branched

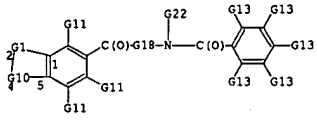
L19 ANSWER 18 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 122:25899 MARPAT
TITLE: Insecticides containing hydrazine and pyrethroid compounds
INVENTOR(S): Watabe, Tetsuo; Kodama, Seiichiro; Masui, Akio; Yokoi, Shinji; Ichinose, Reiji
PATENT ASSIGNEE(S): Nippon Kayaku Kk, Japan; Sankyo Co
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06263604	A2	19940920	JP 1993-53703	19930315

PRIORITY APPLN. INFO.: JP 1993-53703 19930315

AB An insecticide contains a hydrazine deriv. [e.g.,N-(5-methylcroman-6-carbo)-N'-t-butyl-N'-(3,5-dimethylbenzoyl)hydrazine (I)] (Markush structures given) and .gtoreq. 1 pyrethroid compd. (e.g., etofenprox). The mixt. is effective in controlling insects like beetles and Plutella xylostella. In the rice paddy, the mixt. is effective against both Chilo suppressalis and Nilaparvata lugens.

MSTR 18



G1 = 10-4 11-1

G2 = 14

G5 = alkyl<(1-4)> / acyl

L19 ANSWER 18 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)
G10 = 97-2 98-5

G11 = OH
MPL: claim 1
NTE: alkyl in G22 is branched

L19 ANSWER 19 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 119:116944 MARPAT
TITLE: Preparation of o-hydroxynitroso aromatic compound-metal complexes
INVENTOR(S): Nakamura, Masataka; Taniguchi, Takashi
PATENT ASSIGNEE(S): Toray Industries, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

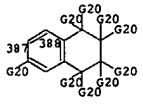
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05032591	A2	19930209	JP 1991-194382	19910802

PRIORITY APPLN. INFO.: JP 1991-194382 19910802

AB The title compds. [I-metal complex; R1 = HO, (un)substituted NH2, C1-20 alkoxy or acyloxy, C7-15 aralkoxy or aralkyl, C6-14 aryloxy, C2-20 alkenyl or alkynyl, C1-20 carbamoyl or alkoxysulfonyl, etc.; n = 0-3; X = (un)substituted NH2, C1-20 alkoxy, C6-14 aryloxy or arylthio, C7-15 aralkoxy or aralkylthio; ring .alpha. = absent or a C3-18 ring], useful as intermediates for functional dyes, are prepd. by reaction of I-metal complex (X = H) with HX (X = same as above). Thus, 20.4 g 1-nitroso-2-naphthol-Cu complex and 5.4 g NaOMe were refluxed in 400 Ml anhyd. MeOH for 3 h to give 4-ethoxy-1-nitroso-2-naphthol-Cu complex which (1 g) was refluxed with 1 g 1,3,3-trimethyl-2-methyleneindoline in 20 mL EtOH for 20 h to give a spiro[indoline-naphthoxazine] deriv. (II; R2 = OEt). Also prepd. were 1-nitroso-4-piperidino-2-naphthol-Cu complex and II (R2 = piperidino).

MSTR 18

G1 = 388-3 387-1



G20 = alkyl<(1-20)> / alkenyl<(2-20)> / CN
MPL: claim 1

L19 ANSWER 20 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 119:52681 MARPAT
TITLE: Two-cycle lubricants and methods of using them
INVENTOR(S): Blythe, Glen H.
PATENT ASSIGNEE(S): Lubrizol Corp., USA
SOURCE: PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9303120	A1	19930218	WO 1992-US6040	19920721
W: AU, BR, CA, FI, JP, NO				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5264005	A	19931123	US 1991-744618	19910809
AU 9223741	A1	19930302	AU 1992-23741	19920721
AU 656018	B2	19950119		
EP 552334	A1	19930728	EP 1992-916253	19920721
EP 552334	B1	19980812		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
AT 169664	E	19980815	AT 1992-916253	19920721
ES 2123003	T3	19990101	ES 1992-916253	19920721
IL 102664	A1	19950526	IL 1992-102664	19920728
ZA 9205942	A	19930428	ZA 1992-5942	19920807
CN 1073200	A	19930616	CN 1992-110633	19920808
CN 1034020	B	19970212		

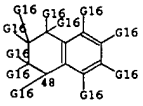
PRIORITY APPLN. INFO.: US 1991-744618 19910809
WO 1992-US6040 19920721

AB A fuel-lubricant mixt. for two-cycle internal-combustion engines comprises a major amt. of a fuel and a minor amt. sufficient to increase compression or release stuck piston rings, of a lubricant compn. comprising (A) .gtoreq.1 dispersant, (B) .gtoreq.1 reaction product of a fatty acid and a polyamine, optionally treated with an alkylene oxide, (C) .gtoreq.1 varnish dissolver selected from (1) keto alcs., (2) C.ltoreq.24 carboxylic esters, and (3) alkoxy alcs., and (D) .ltorsim.15 wt.% of the compn. of .gtoreq.1 fluidizing oil. The compn. also improves general engine cleanliness of two-cycle engines.

MSTR 1A

G3—G1

G1 = 48



L19 ANSWER 20 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

G3 = Ak<(10-400)> (SO (1-) G15)
G16 = OH / Ak<(10-400)> (SO)
MPL: claim 2
NTE: substitution is restricted

L19 ANSWER 21 OF 21 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 110:4187 MARPAT
TITLE: Composition and method for rapid differentiation of viable fungi from bacteria using polyene antibiotics
INVENTOR(S): Cichanowicz, Peggy Woodruff; Belly, Robert Troconis
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 261931	A2	19880330	EP 1987-308380	19870922
EP 261931	A3	19891011		
R: CH, DE, FR, GB, LI				
CA 1290226	A1	19911008	CA 1986-523203	19861118

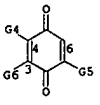
PRIORITY APPLN. INFO.: US 1986-910923 19860924

AB Viable fungi are rapidly differentiated from viable bacteria by incubation with a compn. contg. a polyene antibiotic which affects membrane function in fungi and a compd. [e.g. a RIND compd. (reducible compd. which undergoes intramol. nucleophilic displacement) such as quinone I, where R1 = (R5)mN(R6)QX; R2, R4 = H, (substituted) alkyl or aryl, electron-withdrawing group; R3 = R1, R2; or R3R4 complete a (substituted) strained fused carbocyclic ring; R5 = (substituted) C1-2 alkylene; R6 = (substituted) alkyl, cycloalkyl, aryl, or heterocycle; Q = C(O), C(S); X = shiftable detectable species which provides a detectable species when released; m = 0, 1] which is normally reducible by both fungi and bacteria. The antibiotic selectively inhibits the redn. of the reducible compd. by the fungi but does not affect the reducing capacity of the bacteria. A soln. contg. RIND compd. II, glucose, trimethyl-1,4-benzoquinone (electron transfer agent), buffer, and filipin (polyene antibiotic) at various dilns. was incubated with suspensions of various bacteria and fungi at 37.degree. for 30 min, and the difference in relative fluorescence before and after incubation was measured with excitation at 540 nm and emission at 620 nm. The percent inhibition of redn. of II at 0.52 mg filipin/mL was: Escherichia coli, 0; Staphylococcus aureus, 8.6; Candida albicans, 71.0; Aspergillus flavus, 42.5.

MSTR 1B

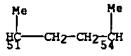
G2—G1

G1 = 6



G5 = OMe
G7 = alkylene<(1-2)> (SO (1-) G11)
G4 +G6 = 51-4 54-3

L19 ANSWER 21 OF 21 MARPAT COPYRIGHT 2003 ACS on STN (Continued)



MPL: claim 4

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L2              7 S L1 FULL
L3                STRUCTURE UPLOADED
L4             11 S L3 FULL
L5                STRUCTURE UPLOADED
L6             34 S L5 FULL
L7                STRUCTURE UPLOADED
L8              0 S L7 FULL
L9             52 S L2 OR L4 OR L6

     FILE 'CAPLUS' ENTERED AT 12:33:01 ON 14 OCT 2003
L10            41 S L9
L11            34 S L10 NOT PY>=2002
L12             3 S L9/USES

     FILE 'BEILSTEIN' ENTERED AT 12:53:20 ON 14 OCT 2003
L13             5 S L1 FULL
L14             6 S L3 FULL
L15            23 S L5 FULL

     FILE 'MARPAT' ENTERED AT 12:55:16 ON 14 OCT 2003
L16             2 S L2 FULL
L17             3 S L4 FULL
L18            18 S L6 FULL
L19            21 S L16 OR L17 OR L18
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